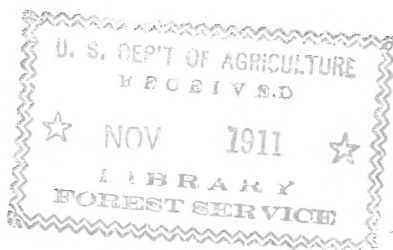


Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

En82C

no. 100



Issued November 2, 1911.

U. S. DEPARTMENT OF AGRICULTURE,
BUREAU OF ENTOMOLOGY—CIRCULAR No. 100.

L. O. HOWARD, Entomologist and Chief of Bureau.

AN INDEX TO CIRCULARS 1 TO 100 OF
THE BUREAU OF ENTOMOLOGY.

BY

ROLLA P. CURRIE AND ANDREW N. CAUDELL.

BUREAU OF ENTOMOLOGY.

L. O. HOWARD, *Entomologist and Chief of Bureau.*

C. L. MARLATT, *Entomologist and Acting Chief in Absence of Chief.*

R. S. CLIFTON, *Executive Assistant.*

W. F. TASTET, *Chief Clerk.*

F. H. CHITTENDEN, *in charge of truck crop and stored product insect investigations.*

A. D. HOPKINS, *in charge of forest insect investigations.*

W. D. HUNTER, *in charge of southern field crop insect investigations.*

F. M. WEBSTER, *in charge of cereal and forage insect investigations.*

A. L. QUAINANCE, *in charge of deciduous fruit insect investigations.*

E. F. PHILLIPS, *in charge of bee culture.*

D. M. ROGERS, *in charge of preventing spread of moths, field work.*

ROLLA P. CURRIE, *in charge of editorial work.*

MABEL COLCORD, *in charge of library.*

United States Department of Agriculture,

BUREAU OF ENTOMOLOGY.

L. O. HOWARD, Entomologist and Chief of Bureau.

AN INDEX TO CIRCULARS 1 TO 100 OF THE BUREAU OF ENTOMOLOGY.

By ROLLA P. CURRIE and ANDREW N. CAUDELL.

The first circular of the present series, or what was formerly known as the second series, of the Bureau of Entomology was issued in 1891, while Circular 99 was issued in 1908. The circulars of the first series, something over 40 in number, were nearly all merely circular letters and had only a temporary value. Very few of these first-series circulars are now known to exist, and even the titles of most of them are now unknown.

While some of the circulars of the present, or second, series were in the nature of emergency circulars, and were therefore soon discontinued or superseded, yet very many others were popular summaries, containing in condensed form all the important data available concerning the particular insects discussed. They have therefore a distinct value to the student and worker in economic entomology as well as to the farmer, forester, horticulturist, and general reader. Many of the insects treated have not yet been made the subjects of bulletins or been considered in other publications of the department, and much information contained in these circulars is therefore not to be found elsewhere.

To make this information more easily available and to prevent it from being overlooked, the present index has been prepared, and it is hoped that it will be of use to all who read or consult the circulars of the bureau.

For convenience the index itself is preceded by a list of circulars 1 to 100, with their revisions. This list may be considered as complete and final, since the policy of issuing revised editions of circulars, i. e., under the original serial number, has been discontinued and no more such will be published.

Where circulars have gone through one or more revised editions the latest edition is the one indexed.

LIST OF CIRCULARS 1 TO 100 OF THE BUREAU OF ENTOMOLOGY.

- No. 1. Condensed information concerning some of the more important insecticides. pp. 7. May, 1891.
- No. 2. The hop plant-louse [*Phorodon humuli* Schr.] and the remedies to be used against it. pp. 7, figs. 5, pl. 1. June, 1891.
- No. 3. An important enemy to fruit trees. The San Jose scale [*Aspidiotus perniciosus* Comst.]: Its appearance in the eastern United States; measures to be taken to prevent its spread and to destroy it. By L. O. Howard. pp. 10, figs. 5. April 4, 1893.
- No. 4. The army worm (*Leucania unipuncta* Haw.). By L. O. Howard. pp. 5, figs. 3. June 16, 1894.
- No. 5. The carpet beetle or "Buffalo moth" (*Anthrenus scrophulariæ* L.). By L. O. Howard. pp. 4, fig. 1. September 8, 1894.
- Same, revised edition. pp. 4, fig. 1. Issued August 10, 1908.
- No. 6. The Mexican cotton-boll weevil (*Anthonomus grandis* Boh.). By L. O. Howard. pp. 5, figs. 3. April 2, 1895.
- Same, Spanish edition. pp. 6, figs. 2. April 2, 1895.
- No. 7. The pear-tree psylla (*Psylla pyricola* Foerst.). By C. L. Marlatt. pp. 8, figs. 6. May 1, 1895.
- No. 8. The imported elm leaf-beetle (*Galerucella luteola* Müll.; *Galeruca xanthomelæna* Schrank). By C. L. Marlatt. pp. 4, fig. 1. May 23, 1895.
- Same, revised edition. pp. 6, fig. 1. Issued September 22, 1908.
- No. 9. Cankerworms [*Paleacrita vernata* Peck and (*Anisopteryx*) *Alsophila pometaria* Harr.]. By D. W. Coquillett. pp. 4, figs. 4. May 24, 1895.
- No. 10. The Harlequin cabbage bug, or calico back (*Murgantia histrionica* Hahn). By L. O. Howard. pp. 2, fig. 1. May 24, 1895.
- No. 11. The rose-chafer [*Macrodactylus subspinosus* Fab.]. By F. H. Chittenden. pp. 4, fig. 1. May 21, 1895.
- Same, revised. pp. 4, fig. 1. Issued July 6, 1909.
- No. 12. The Hessian fly (*Cecidomyia destructor* Say). By C. L. Marlatt. pp. 4. July 26, 1895.
- Same, revised edition. pp. 4. April 13, 1900. (Superseded by No. 70.)
- No. 13. Mosquitoes and fleas. By L. O. Howard. pp. 4. February 1, 1896.
- Same, revised edition. November 15, 1897.
- No. 14. (Revision of No. 6.) The Mexican cotton-boll weevil (*Anthonomus grandis* Boh.). By L. O. Howard. pp. 8, figs. 5. February 12, 1896.
- Same, Spanish edition. pp. 8, figs. 5. May 18, 1896.
- No. 15. General work against insects which defoliate shade trees in cities and towns. By L. O. Howard. pp. 4. March 6, 1896. (In advance from an article entitled "The shade-tree insect problem in the eastern United States," to be published in the Yearbook of the department for 1895.)
- No. 16. The larger corn stalk-borer (*Diatraea saccharalis* Fab.). By L. O. Howard. pp. 3, figs. 3. August 13, 1896.
- No. 17. The peach-tree borer (*Sannina exitiosa* Say). By C. L. Marlatt. pp. 4, fig. 1. September 30, 1896. (Superseded by No. 54.)
- No. 18. (Revision of No. 14.) The Mexican cotton-boll weevil (*Anthonomus grandis* Boh.). By L. O. Howard. pp. 8, figs. 5. February 4, 1897.

- Same*, Spanish edition. pp. 10.
Same, German edition. pp. 11.
 No. 19. The clover mite (*Eryobia pratensis* Garman). By C. L. Marlatt. pp. 4, fig. 1. March 5, 1897.
Same, second edition. pp. 4, fig. 1. July 19, 1897.
 No. 20. The woolly aphid of the apple (*Schizoneura lanigera* Hausmann). By C. L. Marlatt. pp. 6, figs. 2. March 15, 1897.
Same, revised edition. pp. 6, figs. 2. June 23, 1908.
 No. 21. The strawberry weevil (*Anthonomus signatus* Say). By F. H. Chittenden. pp. 7, figs. 4. March 18, 1897.
Same, revised edition. pp. 10, figs. 5. Issued September 19, 1908.
 No. 22. The periodical cicada in 1897. By E. A. Schwarz. pp. 4. May 1, 1897.
 No. 23. The buffalo tree-hopper (*Ceresa bubalus* Fab.). By C. L. Marlatt. pp. 4, figs. 2. May 10, 1897.
 No. 24. The two-lined chestnut borer (*Agrilus bilineatus* Weber). By F. H. Chittenden. pp. 8, fig. 1. July 14, 1897.
Same, revised edition. pp. 7, fig. 1. Issued January 20, 1909.
 No. 25. The ox warble (*Hypoderma lineata* Villers). By C. L. Marlatt. pp. 10, figs. 10. July 19, 1897.
 No. 26. The pear slug (*Eriocampoides limacina* Retzius). By C. L. Marlatt. pp. 7, figs. 4. August 28, 1897.
 No. 27. The Mexican cotton-boll weevil in 1897. By L. O. Howard. pp. 7. December 31, 1897.
 No. 28. The box-elder plant-bug (*Leptocoris trivittatus* Say). By L. O. Howard. pp. 3, fig. 1. January 8, 1898.
 No. 29. The fruit-tree bark-beetle (*Scolytus rugulosus* Ratz.). By F. H. Chittenden. pp. 8, figs. 5. March 25, 1898.
Same, revised edition. March 25, 1903.
 No. 30. The periodical cicada in 1898. By E. A. Schwarz. pp. 3. April 1, 1898.
 No. 31. The striped cucumber beetle (*Diabrotica vittata* Fab.). By F. H. Chittenden. pp. 7, figs. 2. April 26, 1898.
Same, revised edition. pp. 6, figs. 2. June 9, 1903.
Same, second revision. pp. 8, figs. 2. Issued May 22, 1909.
 No. 32. The larger apple-tree borers. By F. H. Chittenden. pp. 12, figs. 3. July 1, 1898.
Same, revised edition. pp. 12, figs. 3. August 30, 1902.
Same, second revise. pp. 11, figs. 3. April 8, 1905.
Same, third revise. pp. 11, figs. 3. Issued December 10, 1907.
 No. 33. Remedial work against the Mexican cotton-boll weevil. By L. O. Howard. pp. 6. July 1, 1898. (Supplementary to circulars 18 and 27.)
 No. 34. House ants (*Monomorium pharaonis* et al.). By C. L. Marlatt. pp. 4, figs. 3. July 6, 1898.
Same, revise. pp. 4, figs. 3. Issued June 12, 1907.
 No. 35. House flies (*Musca domestica* et al.). By L. O. Howard. pp. 8, figs. 6. July 11, 1898. (Superseded by No. 71.)
 No. 36. The true clothes moths (*Tinea pellionella* et al.). By C. L. Marlatt. pp. 8, figs. 3. July 18, 1898.
Same, revise. pp. 8, figs. 3. Issued January 15, 1908.
 No. 37. The use of hydrocyanic-acid gas for fumigating greenhouses and cold frames. By Albert F. Woods and P. H. Dorsett. pp. 10, figs. 3. January 10, 1899.
Same, corrected print. (Compare page 8.) pp. 10, figs. 3. January 10, 1899.
Same, revised edition. pp. 10, figs. 3. October 2, 1903.
Same, second revise. pp. 11, figs. 3. Issued April 3, 1908.

- No. 38. The squash-vine borer (*Melittia satyriniformis* Hbn.). By F. H. Chittenden. pp. 6, figs. 2. April 22, 1899.
Same, revised edition. pp. 6, figs. 2. November 19, 1903.
Same, second revise. pp. 6, figs. 2. Issued September 3, 1908.
- No. 39. The common squash bug (*Anasa tristis* De G.). By F. H. Chittenden. pp. 5, figs. 3. May 5, 1899.
Same, revised edition. pp. 5, figs. 3. March 23, 1905.
Same, second revise. pp. 5, figs. 3. Issued July 28, 1908.
- No. 40. How to distinguish the different mosquitoes of North America. By L. O. Howard (with "Synoptic tables of the North American mosquitoes," by D. W. Coquillett). pp. 8, figs. 3. February 20, 1900.
- No. 41. Regulations of foreign governments regarding importation of American plants, trees, and fruits. By L. O. Howard. pp. 4. August 24, 1900.
- No. 42. How to control the San Jose scale. By C. L. Marlatt. pp. 6. October 22, 1900.
Same, revised. pp. 6. May 17, 1902.
Same, second edition. May 26, 1902.
Same, third edition. April 6, 1903.
Same, fourth edition. pp. 8. March 10, 1906.
Same, fifth edition. pp. 7. [March 31] 1909.
- No. 43. The destructive green pea louse (*Nectarophora destructor* Johns.). By F. H. Chittenden. pp. 8, figs. 3. May 23, 1901.
Same, second edition [entitled "The pea aphid (*Macrosiphum pisi* Kalt.)"]. pp. 10, figs. 7. Issued February 25, 1909.
- No. 44. The periodical cicada in 1902. By W. D. Hunter. pp. 4, figs. 2. March 13, 1902.
- No. 45. A new nomenclature for the broods of the periodical cicada. By C. L. Marlatt. pp. 8. May 1, 1902.
- No. 46. Hydrocyanic-acid gas against household insects. By L. O. Howard. pp. 6. June 22, 1902.
Same, revised edition. pp. 7. Issued February 20, 1907. Revised by C. L. Marlatt.
- No. 47. The bedbug (*Cimex lectularius* Linn.). By C. L. Marlatt. pp. 8, figs. 3. June 15, 1902.
Same, revised edition. pp. 8, figs. 3. Issued February 26, 1907.
- No. 48. The house centipede (*Scutigera forceps* Raf.). By C. L. Marlatt. pp. 4, figs. 2. June 10, 1902.
- No. 49. The silver fish (*Lepisma saccharina* Linn.). By C. L. Marlatt. pp. 4, figs. 2. June 20, 1902.
- No. 50. The white ant (*Termes flavipes* Koll.). By C. L. Marlatt. pp. 8, figs. 4. June 30, 1902.
Same, revised edition. pp. 8, figs. 4. Issued January 27, 1908.
- No. 51. Cockroaches. By C. L. Marlatt. pp. 15, figs. 5. June 23, 1902.
Same, revised. pp. 14, figs. 5. Issued June 23, 1908.
- No. 52. The lime, sulphur, and salt wash. By C. L. Marlatt. pp. 8. February 20, 1903.
Same, second edition. March 18, 1904.
- No. 53. The yellow-winged locust (*Camnula pellucida* Scudd.). By C. B. Simpson. pp. 3, fig. 1. May 12, 1903.
- No. 54. The peach-tree borer (*Sannina exitiosa* Say). By C. L. Marlatt. pp. 6, fig. 1. October 19, 1903.
- No. 55. Powder-post injury to seasoned wood products. By A. D. Hopkins. pp. 5, fig. 1. November 20, 1903.
- No. 56. The most important step in the cultural system of controlling the boll weevil. By W. D. Hunter. pp. 7. October 10, 1904. (Superseded by No. 95.)

- No. 57. The greenhouse white fly (*Aleyrodes vaporariorum* Westw.). By A. W. Morrill. pp. 9, fig. 1. February 15, 1905.
- No. 58. Report on the gypsy moth and the brown-tail moth, July, 1904. By C. L. Marlatt. pp. 12, pl. 1, map 1. March 21, 1905.
- No. 59. The corn root-worms. By F. H. Chittenden. pp. 8, figs. 3. March 23, 1905.
- No. 60. The imported cabbage worm (*Pontia rapæ* Linn.). By F. H. Chittenden. pp. 8, figs. 6. April 28, 1905.
- No. 61. Black check in western hemlock. By H. E. Burke. pp. 10, figs. 5. May 24, 1905.
- No. 62. The cabbage hair-worm. By F. H. Chittenden. pp. 6, fig. 1. May 17, 1905.
- Same, revised edition. pp. 6, fig. 1. Issued July 28, 1908.
- No. 63. Root-maggots and how to control them. By F. H. Chittenden. pp. 7, figs. 5. June 6, 1905.
- Same, second edition. pp. 7, figs. 5. February 12, 1906.
- No. 64. The cottony maple scale (*Pulvinaria innumerabilis* Rathvon). By J. G. Sanders. pp. 6, figs. 4. September 7, 1905.
- No. 65. The cotton red spider (*Tetranychus gloveri* Bks.). By E. S. G. Titus. pp. 5, figs. 2. October 30, 1905.
- No. 66. The joint-worm (*Isosoma tritici* Fitch). By F. M. Webster. pp. 5, figs. 5, October 20, 1905.
- Same, revised edition. pp. 7, figs. 6. Issued September 21, 1908.
- No. 67. The clover root-borer (*Hylastinus obscurus* Marsham). By F. M. Webster. pp. 5, figs. 4. December 28, 1905.
- No. 68. The tobacco thrips and remedies to prevent "white veins" in wrapper tobacco (*Euthrips nicotianæ* Hinds). By W. A. Hooker. pp. 5, figs. 2. February 26, 1906.
- No. 69. Some insects affecting the production of red clover seed. By F. M. Webster. pp. 9, figs. 8. April 12, 1906.
- No. 70. The Hessian fly (*Mayetiola* [*Cecidomyia*] *destructor* Say). By F. M. Webster. pp. 16, figs. 16. April 14, 1906.
- No. 71. (Revision of Circular No. 35.) House flies (*Musca domestica* et al.). By L. O. Howard. pp. 9, figs. 9. March 27, 1906.
- Same, revised edition. pp. 10, figs. 9. September 21, 1906.
- No. 72. Key to the known larvæ of the mosquitoes of the United States. By Harrison G. Dyar. pp. 6, fig. 1. April 27, 1906.
- No. 73. The plum curculio (*Conotrachelus nenuphar* Herbst). By Fred Johnson and A. A. Girault. pp. 10, figs. 5. April 14, 1906.
- No. 74. The periodical cicada in 1906. By C. L. Marlatt. pp. 5, figs. 3. April 16, 1906.
- No. 75. Requirements to be complied with by nurserymen or others who make interstate shipments of nursery stock. By A. F. Burgess. pp. 6. July 5, 1906.
- Same, revised edition. pp. 7. Issued July 24, 1908.
- Same, second revision. pp. 9. Issued August 7, 1909.
- No. 76. List of publications of the Bureau of Entomology. Compiled by Mabel Colcord. pp. 21. September 24, 1906.
- Same, revised to March 1, 1908. pp. 28.
- Same, revised to May 1, 1909. pp. 29.
- Same, revised to February 1, 1910. pp. 32.
- No. 77. Harvest mites, or "chiggers." By F. H. Chittenden. pp. 6, figs. 3. September 29, 1906.
- No. 78. The slender seed-corn ground-beetle (*Clivina impressifrons* Lec.). By F. M. Webster. pp. 5, figs. 2. October 4, 1906.
- No. 79. The brood diseases of bees. By E. F. Phillips. pp. 5. October 3, 1906.

- No. 80. The melon aphid (*Aphis gossypii* Glov.). By F. H. Chittenden. pp. 16, figs. 6. November 14, 1906.
- No. 81. The aphides affecting the apple. By A. L. Quaintance. pp. 10, figs. 8. Issued March 9, 1907.
- No. 82. Pinhole injury to girdled cypress in the South Atlantic and Gulf States. By A. D. Hopkins. pp. 4, fig. 1. Issued January 2, 1907.
- No. 83. The locust borer [*Cyrtene robiniae* Forst.] and methods for its control. By A. D. Hopkins. pp. 8, figs. 4. Issued February 19, 1907.
- No. 84. The grasshopper problem and alfalfa culture. By F. M. Webster. pp. 10, figs. 8. Issued April 6, 1907.
- No. 85. The spring grain-aphid (*Toxoptera graminum* Rond.). By F. M. Webster. pp. 7, figs. 3. Issued March 29, 1907. (See also No. 93.)
- No. 86. The corn leaf-aphid [*Aphis maidis* Fitch] and corn root-aphid [*Aphis maidi-radici* Forbes]. By F. M. Webster. pp. 13, figs. 4. Issued May 6, 1907.
- No. 87. The Colorado potato beetle (*Leptinotarsa decemlineata* Say). By F. H. Chittenden. pp. 15, figs. 6. Issued June 3, 1907.
- No. 88. The terrapin scale (*Eulecanium nigrofasciatum* Pergande). By J. G. Sanders. pp. 4, figs. 3. Issued May 14, 1907.
- No. 89. The periodical cicada in 1907 (*Tibicen septendecim* L., race *tredecim* Walsh-Riley). By C. L. Marlatt. pp. 4, figs. 3. Issued May 14, 1907.
- No. 90. The white-pine weevil [*Pissodes strobi* Peck]. By A. D. Hopkins. pp. 8, figs. 6. Issued June 18, 1907.
- No. 91. Note on the occurrence of the North American fever tick [(*Boophilus*) *Margaropus annulatus* Say] on sheep. By W. D. Hunter. pp. 3. Issued July 3, 1907.
- No. 92. Mites and lice on poultry. By Nathan Banks. pp. 8, figs. 6. Issued September 25, 1907.
- No. 93. The spring grain-aphid or so-called "green bug" (*Toxoptera graminum* Rond.). By F. M. Webster. pp. 18, figs. 7. Issued August 22, 1907.
- Same, revised. pp. 22, figs. 10. Issued June 23, 1909.
- No. 94. The cause of American foul brood [*Bacillus larvæ*]. By G. F. White. pp. 4. Issued July 29, 1907.
- No. 95. (Revision of Circular No. 56.) The most important step in the control of the boll weevil [*Anthonomus grandis* Boh.]. By W. D. Hunter. pp. 8. Issued October 3, 1907.
- Same, revised edition. pp. 8. Issued September 21, 1908.
- Same, French edition. pp. 11. Issued January 21, 1909.
- No. 96. The catalpa sphinx (*Ceratonia catalpæ* Bdv.). By L. O. Howard and F. H. Chittenden. pp. 7, figs. 2. Issued December 16, 1907.
- No. 97. The bagworm (*Thyridopteryx ephemeraformis* Haw.). By L. O. Howard and F. H. Chittenden. pp. 10, figs. 11. Issued February 6, 1908.
- No. 98. The apple-tree tent caterpillar (*Malacosoma americana* Fab.). By A. L. Quaintance. pp. 8, figs. 4. Issued January 28, 1908.
- No. 99. The nut weevils. By F. H. Chittenden. pp. 15, figs. 14. Issued March 6, 1908.
- No. 100. An index to Circulars 1 to 100 of the Bureau of Entomology. By Rolla P. Currie and Andrew N. Caudell. pp. i-ii, 1-49. Issued October —, 1911.

INDEX.

[Two numbers joined by a dash, as 1-39, indicate that the subject is treated continuously throughout the pages noted.]

	Circular No.	Page.	Figure.
A.			
<i>Abies grandis</i> . (See Fir, lowland.)			
<i>lasiocarpa</i> . (See Fir, Alpine.)			
<i>Ablerus clisiocampæ</i> , parasite of <i>Malacosoma americana</i>	98	5	
<i>Acalypha</i> , food plant of <i>Aphis gossypii</i>	80	5	
<i>Acanthia lectularia</i> . (See Bedbug.)			
<i>Acer negundo</i> . (See Box elder.)			
<i>saccharinum</i> , food plant of <i>Eulecanium nigrofasciatum</i>	88	2	
<i>Pulvinaria innumerabilis</i>	64	2	
<i>Acchillea millefolium</i> , flowers, food of <i>Anthrenus scrophulariæ</i>	5, rev.	2	
<i>Accholla multispinosa</i> , probable enemy of <i>Balaninus proboscideus</i> and <i>B. rectus</i>	99	6	
<i>Adalia bipunctata</i> , enemy of aphides.....	81	8	7
<i>Macrosiphum pisi</i>	43, ed. 2	5	
<i>Psylla pyricola</i>	7	7	
<i>Adiantum ballii</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
<i>cuneatum</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
<i>Ædes atlanticus</i> , distinctive characters of larva.....	72	4	
distinctive characters of genus, adults.....	40	4	
<i>fuscus</i> , distinctive characters of adult.....	40	7	
larva.....	72	4	
<i>grossbecki</i> , distinctive characters of larva.....	72	6	
<i>infirmatus</i> , distinctive characters of larva.....	72	5	
<i>quaylei</i> , distinctive characters of larva.....	72	6	
<i>sapphirinus</i> , distinctive characters of adult.....	40	7	
table of North American species, adults.....	40	7	
<i>tormentor</i> , distinctive characters of larva.....	72	4	
<i>Ageratum</i> , food plant of <i>Aleyrodes vaporariorum</i>	57	2	
<i>Agonoderus pallipes</i> , injurious to seed corn.....	78	4	
<i>Agrius bilineatus</i> , circular.....	24, rev.	1-7	1
remedies.....	24, rev.	5-7	
<i>Agropyron occidentalis</i> , food plant of <i>Toxoptera graminum</i>	93, rev.	5	
<i>repens</i> , food plant of <i>Mayetiola destructor</i> or related species.....	70	7	
<i>tenerum</i> , food plant of <i>Toxoptera graminum</i>	93, rev.	5	
<i>Agrostis</i> , food plant of <i>Mayetiola destructor</i> or related species.....	70	7	
possible food plant of <i>Toxoptera graminum</i>	85	4	
Alabama, requirements relative to shipment of nursery stock.....	75, rev. 2	7	
Alcohol as remedy for "chiggers".....	77	6	
(wood) and oil of lemon against corn root-aphis.....	86	13	
<i>Aleyrodes citri</i> on citrus plants in greenhouses.....	57	4	
<i>packardii</i> on strawberry in greenhouses.....	57	4	
spp., in greenhouses, remedies.....	80	12	
<i>vaporariorum</i> , circular.....	57	1-9	1
on tomato.....	37, rev. 2	4	
remedies.....	37, rev. 2	4	
Alfalfa, food plant of <i>Bruchophagus funebris</i>	69	8	
<i>Camnula pellucida</i>	84	1	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Hylastinus obscurus</i>	67	3	
grasshopper enemies, circular.....	84	1-10	1-8
Alkali wash against round-headed apple-tree borer.....	32, rev. 3	6	
<i>Alloca thyriderigis</i> , parasite of <i>Thyriderigis ephemeraformis</i>	97	6, 7	7
probable host of <i>Habrocytus thyriderigis</i>	97	8	
<i>Allograpta obliqua</i> , enemy of <i>Aphis gossypii</i>	80	6	
<i>Macrosiphum pisi</i>	43, ed. 2	5	
Almond, food plant of <i>Bryobia pratensis</i>	19, ed. 2	2	
<i>Allocasia macrorrhiza variegata</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
<i>Alopecurus geniculatus</i> , food plant of <i>Toxoptera graminum</i>	93, rev.	5	
Alsike. (See Clover, alsike.)			
Alum ineffective against rose-chaffer.....	11, rev.	3	
Alyssum, sweet, food plant of <i>Pontia rapæ</i>	60	4	

	Circular No.	Page.	Figure.
Amaranthus, food plant of <i>Aphis gossypii</i>	80	5	.....
probable food plant of <i>Diabrotica 12-punctata</i>	59	4	.....
Ambrosia beetles in girdled cypress, remedies.....	82	3-4	.....
injury to girdled cypress.....	82	1	.....
<i>trifida</i> . (See Ragweed.).....			
<i>Ameletonius clisiocampæ</i> , parasite of <i>Malacosoma americana</i>	98	5	.....
Ammonia as remedy for "chiggers".....	77	6	.....
ineffective against strawberry weevil.....	21, rev.	7	.....
to alleviate pain from centipede bites.....	48	3	.....
Amorpha, food plant of <i>Diabrotica 12-punctata</i>	59	3	.....
<i>Amphicyrtia simplices</i> , association with <i>Cheilosia alaskensis</i>	61	8	.....
<i>Anaphes conotracheli</i> , parasite of <i>Conotrachelus nenuphar</i>	73	6	.....
<i>Anasa tristis</i> , circular.....	39, rev. 2	1-5	1-3
remedies.....	39, rev. 2	4	.....
<i>Anatis ocellata</i> = <i>Anatis 15-punctata</i>	87	10	.....
15-punctata, enemy of <i>Leptinotarsa decemlineata</i>	87	10	.....
Andromeda, food plant of <i>Macrodactylus subspinosus</i>	11, rev.	4	.....
Animal matter, dead, food of cockroaches.....	51, rev.	4	.....
<i>Anisopteryx pometaria</i> , general account.....	9	3-4	3-4
remedies.....	9	3-4	.....
<i>Anomalon anale</i> , parasite of <i>Malacosoma americana</i>	98	5	.....
<i>exile</i> , parasite of <i>Malacosoma americana</i>	98	5	.....
<i>Anopedia error</i> , parasite of <i>Dasyneura leguminicola</i>	69	5	.....
<i>Anopheles albimanus</i> , status.....	40	4	.....
<i>annulimanus</i> perhaps = <i>Culex consobrinus</i>	40	6	.....
status.....	40	4	.....
<i>barberi</i> , distinctive characters of larva.....	72	1	.....
<i>crucians</i> , distinctive characters of adult.....	40	4	.....
larva.....	72	1	.....
synonyms.....	40	5	.....
distinctive characters of genus, adults.....	40	4	.....
<i>franciscanus</i> , distinctive characters of larva.....	72	1	.....
<i>hiemalis</i> = <i>punctipennis</i>	40	5	.....
<i>maculipennis</i> , distinctive characters of larva.....	72	1	.....
probably = <i>Anopheles quadrimaculatus</i>	40	5	.....
status.....	40	4	.....
<i>nigripes</i> , status.....	40	4	.....
<i>pictus</i> = <i>Anopheles crucians</i>	40	5	.....
status.....	40	4	.....
<i>punctipennis</i> , adults.....	40	2-4	1
<i>Anopheles hiemalis</i> a synonym.....	40	5	.....
distinctive characters of adult.....	40	4	.....
larva.....	72	1	.....
<i>quadrimaculatus</i> , <i>Anopheles maculipennis</i> a probable syn- onym.....	40	5	.....
distinctive characters of adult.....	40	4	.....
resting position of adults.....	40	3	3
table of North American species, adults.....	40	4	.....
unrecognized North American species.....	40	4-5	.....
Anopheline, distinctive characters of larva.....	72	1	.....
<i>Anthomyia ceparum</i> = <i>Pegomya cepetorum</i>	63, ed. 2	6	.....
<i>Anthonomus grandis</i> . (See Weevil, Mexican cotton boll.) <i>signatus</i> , circular.....	21, rev.	1-10	1-5
remedies.....	21, rev.	6-10	.....
<i>Anthrenus lepidus</i> , not known to attack carpets.....	5, rev.	2	.....
<i>scrophulariz</i> , circular.....	5, rev.	1-4	1
remedies.....	5, rev.	3-4	.....
<i>Anthurium crystallinum</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	.....
Ant, little black. (See <i>Monomorium minutum</i> .) brown. (See <i>Lastus niger</i> var. <i>americanus</i> .) red. (See <i>Monomorium pharaonis</i> .) pavement. (See <i>Tetramorium caspium</i> .) white (<i>Termes flavipes</i>), circular.....	50, rev.	1-8	1-4
hydrocyanic-acid gas as remedy.....	46, rev.	2	.....
remedies.....	50, rev.	7-8	.....
Ants as disseminators of San Jose scale.....	3	6	.....
carbon bisulphid as insecticide.....	1	5	.....
"cows".....	86	8	.....
destruction in control of corn root-aphis.....	86	12	.....
enemies of <i>Chrysobothris femorata</i>	32, rev. 3	11	.....
feeding on honeydew from aphides.....	80	1	.....
house-infesting species, circular.....	34, rev.	1-4	1-3
remedies.....	34, rev.	4	.....
hydrocyanic-acid gas as remedy.....	46, rev.	2	.....
remedies.....	34, rev.	4	.....
<i>Aonidia aurantii</i> , resin wash as insecticide.....	1	3-4	.....
<i>citrinus</i> , resin wash as insecticide.....	1	3-4	.....
<i>Apanteles carpatius</i> , parasite of <i>Tinea pellionella</i>	36, rev.	4	.....
<i>Trichophaga tapetzella</i>	36, rev.	5	.....
<i>catalpæ</i> . (See <i>Microplitis catalpæ</i> .).....	98	5	.....
<i>clisiocampæ</i> , parasite of <i>Malacosoma americana</i>	98	5	.....
<i>congregatus</i> , parasite of <i>Ceratonia catalpæ</i>	96	5	.....
var. <i>rufocozalis</i> , parasite of <i>Malacosoma americana</i>	98	5	.....
<i>glomeratus</i> , parasite of <i>Pontia rapæ</i>	60	5, 8	3-4

	Circular No.	Page.	Figure.
<i>Aphelinus mali</i> , parasite of <i>Schizoneura lanigera</i>	20, rev.	6	
<i>nigrinus</i> , parasite of <i>Toxoptera graminum</i>	93, rev.	15	
<i>Aphenogaster fulva</i> , enemy of <i>Anthonomus signatus</i>	21, rev.	4	
Aphides affecting the apple, circular.....	81	1-10	1-8
remedies.....	81	9-10	
tobacco as remedy.....	37, rev. 2	1	
<i>Aphidius fletcheri</i> , parasite of <i>Macrosiphum pisi</i>	43, ed. 2	5	
<i>washingtonensis</i> , parasite of <i>Macrosiphum pisi</i>	43, ed. 2	5	
Aphis, apple. (See <i>Aphis mali</i> .)			
apple, rosy. (See <i>Aphis malifoliae</i> .)			
avenæ. (See <i>Siphocoryne avenæ</i> .)			
black. (See <i>Aphis gossypii</i> .)			
brassicæ, control by natural enemies.....	80	15-16	
host of <i>Lysiphlebus tritici</i>	93, rev.	17	
cabbage. (See <i>Aphis brassicæ</i> .)			
<i>citrifolii</i> = <i>Aphis gossypii</i>	80	5	
<i>citrulli</i> = <i>Aphis gossypii</i>	80	5	
corn leaf. (See <i>Aphis maidis</i> .)			
root. (See <i>Aphis maidi-radici</i> .)			
cotton. (See <i>Aphis gossypii</i> .)			
<i>cucumeris</i> = <i>Aphis gossypii</i>	80	5	
European grain. (See <i>Siphocoryne avenæ</i> .)			
<i>fitchi</i> = <i>Siphocoryne avenæ</i>	81	3	
<i>forbesi</i> = <i>Aphis gossypii</i>	80	5	
<i>gossypii</i> , circular.....	80	1-16	1-6
host of <i>Lysiphlebus tritici</i>	93, rev.	17	
remedies.....	80	8-16	
<i>maid-radici</i> , general account.....	86	1, 4-9	3-4
host of <i>Lysiphlebus tritici</i>	93, rev.	17	
remedies.....	86	9-13	
<i>maidis</i> , general account.....	86	1-3	1-2
host of <i>Lysiphlebus tritici</i>	93, rev.	17	
<i>malifoliae</i> , general account.....	81	7-9	6
remedies.....	81	9-10	
<i>mali</i> , general account.....	81	5-6	1, 3-5
remedies.....	81	9-10	
melon. (See <i>Aphis gossypii</i> .)			
orange. (See <i>Aphis gossypii</i> .)			
pea. (See <i>Macrosiphum pisi</i> .)			
<i>pomi</i> = <i>Aphis mali</i>	81	5	
<i>setariae</i> , host of <i>Lysiphlebus tritici</i>	93, rev.	17	
<i>sorbi</i> , food plants.....	81	7	
perhaps = <i>Aphis malifoliae</i>	81	7	
spring grain. (See <i>Toxoptera graminum</i> .)			
squash. (See <i>Nectarophora cucurbitæ</i> .)			
woolly. (See <i>Schizoneura lanigera</i> .)			
apple. (See <i>Schizoneura lanigera</i> .)			
<i>Aphycus pulvinariae</i> , parasite of <i>Pulvinaria innumerabilis</i>	64	4	
Apple aphides, circular.....	81	1-10	1-8
remedies.....	81	9-10	
aphis. (See <i>Aphis mali</i> .)			
rosy. (See <i>Aphis malifoliae</i> .)			
character of injury by <i>Conotrachelus nenuphar</i>	73	5	
crab, food plant of <i>Aphis mali</i>	81	5	
<i>Conotrachelus nenuphar</i>	73	4	
<i>Saperda candida</i>	32, rev. 3	3	
<i>cretata</i>	32, rev. 3	8	
<i>Schizoneura lanigera</i>	20, rev.	2	
wild, less injured than other apples by <i>Schizoneura lanigera</i>	20, rev.	2	
food plant of <i>Anisophteryx pometaria</i>	9	3-4	
<i>Aphis mali</i>	81	5	
<i>malifoliae</i>	81	7	
<i>sorbi</i>	81	7	
<i>Bryobia pratensis</i>	19, ed. 2	2	
canker-worms.....	9	1	
<i>Chrysobothris femorata</i>	32, rev. 3	9	
<i>Conotrachelus nenuphar</i>	73	4	
<i>Diabrotica 12-punctata</i>	59	3	
<i>longicornis</i>	59	7	
<i>vittata</i>	31, rev. 2	2	
<i>Eulecanium nigrofasciatum</i>	88	9	
<i>Euproctis chrysorrhæa</i>	58	11	
<i>Leptocoris trivittatus</i>	28	1	
<i>Macroductylus subspinosus</i>	11, rev.	2	
<i>Malacosoma americana</i>	98	2	
<i>Paleacrita vernata</i>	9	1-3	
<i>Pulvinaria innumerabilis</i>	64	2	
San Jose scale.....	3	1	
<i>Saperda candida</i>	32, rev. 3	3	
<i>cretata</i>	32, rev. 3	8	
<i>Schizoneura lanigera</i>	20, rev.	1-4	
<i>Scolytus rugulosus</i>	29, rev.	2	
<i>Siphocoryne avenæ</i>	81	3	

	Circular No.	Page.	Figure.
Apple, injury by <i>Ceresa bubalus</i>	23	2	
louse, woolly. (See <i>Schizoneura lanigera</i> .)			
Northern Spy variety resistant to <i>Schizoneura lanigera</i>	20, rev. 2		
root louse (see also <i>Schizoneura lanigera</i>).			
insecticides.....	1	5	
plant-louse. (See <i>Schizoneura lanigera</i> .)			
thorn, food plant of <i>Leptinotarsa decemlineata</i>	87	8	
wild balsam. (See <i>Echinocystis lobata</i> .)			
worm. (See <i>Carpocapsa pomonella</i> .)			
Apricot, food plant of <i>Conotrachelus nenuphar</i>	73	4, 5	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Scolytus rugulosus</i>	29, rev.	2	
not infested by <i>Aspidiotus perniciosus</i>	3	1	
<i>Aradus</i> sp., mistaken for <i>Cimer lectularius</i>	47, rev.	4	
<i>Aralia filicifolia</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
<i>Arborvitæ</i> , food plant of <i>Bryobia pratensis</i>	19, ed. 2	2	
<i>Thyridopteryx ephemeraformis</i>	97	3-4	3
Arctium, food plant of <i>Aphis gossypii</i>	80	5	
<i>Areca lutescens</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
<i>Argas miniatus</i> , general account.....	92	4	2
<i>Arilus cristatus</i> , enemy of <i>Diabrotica 12-punctata</i>	59	5	
<i>Pontia rapæ</i>	60	6	
range extending northward.....	97	2	
Arizona, requirements relative to shipment of nursery stock.....	75, rev. 2	1-2	
Arkansas, requirements relative to shipment of nursery stock.....	75, rev. 2	2	
Army worm. (See <i>Leucania unipuncta</i> .)			
Arsenate of lead against apple-tree tent caterpillar.....	98	8	
bagworm.....	97	9-10	
catalpa sphinx.....	96	6	
Colorado potato beetle.....	87	14	
imported cabbage worm.....	60	6	
plum curculio.....	73	9	
rose-chaffer.....	11, rev.	3	
southern corn root-worm.....	59	5	
striped cucumber beetle.....	31, rev. 2	6-7	
and Bordeaux mixture against rose-chaffer.....	11, rev.	3	
strawberry weevil.....	21, rev.	8, 9	
striped cucumber beetle and fungous diseases.....	31, rev. 2	6-7	
Arsenic in starch paste against silver fish.....	49	4	
white, against boll weevil.....	33	3-4	
as insecticide.....	1	5-7	
against boll weevil.....	18	6-7	
Arsenical and lime against peach-tree borer.....	17	4	
Arsenicals (see also Arsenate of lead, Arsenic, Arsenite of copper, Arsenite of lime, Arsenoid, green, London purple, Paris green, and Scheele's green).			
against apple-tree tent caterpillar.....	98	8	
bagworm.....	97	9-10	
boll weevil.....	33	1-4	
catalpa sphinx.....	96	6	
Colorado potato beetle.....	87	13-14	
imported cabbage worm.....	60	6	
pear slug.....	26	6	
plum curculio.....	73	9-10	
rose-chaffer.....	11, rev.	3	
Southern corn root-worm.....	59	5	
strawberry weevil.....	21, rev.	8-9	
striped cucumber beetle.....	31, rev. 2	6	
yellow-winged locust.....	53	3	
and Bordeaux mixture against apple-tree tent caterpillar.....	98	8	
southern corn root-worm.....	59	5	
milk of lime against apple-tree tent caterpillar.....	98	8	
harmlessness when properly applied.....	60	7	
Arsenious acid. (See Arsenic, white.)			
Arsenite of copper against boll weevil.....	33	3-4	
lime with soda against Colorado potato beetle.....	87	14	
Arsenites as insecticides.....	1	5-7	
Arsenoid, green, against plum curculio.....	73	9	
<i>Asclepias</i> , food plant of <i>Diabrotica 12-punctata</i>	59	3	
Ashes against pear slug.....	26	6	
root form of woolly aphis.....	20, rev.	4	
striped cucumber beetle.....	31, rev. 2	6	
ineffective against strawberry weevil.....	21, rev.	7	
Ash, mountain, food plant of <i>Chrysobothris femorata</i>	32, rev. 3	9	
<i>Saperda candida</i>	32, rev. 3	3	
<i>Scolytus rugulosus</i>	29, rev.	2	
Asparagus, food plant of <i>Aphis gossypii</i>	80	5	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Aspidiotus perniciosus</i> . (See Scale, San Jose.)			
Aster, food plant of <i>Aleurodes vaporariorum</i>	59	2	
<i>Diabrotica 12-punctata</i>	59	3	
<i>vittata</i>	31, rev. 2	2	
white, flowers frequented by butterflies of <i>Pontia rapæ</i>	60	4	

	Circular No.	Page.	Figure.
<i>Atropates collinsi</i> , parasite of <i>Pulvinaria innumerabilis</i>	64	4	.....
<i>Attagenus piceus</i> , black carpet beetle.....	36, rev.	4	.....
destruction by cold storage.....	36, rev.	8	.....
Austria-Hungary, laws relative to importation of American plants, trees, and fruits.....	41	1	.....
<i>Autographa brassicæ</i> , the cabbage looper.....	60	6	.....
Axle grease against ox warble.....	26	8-9	.....
B.			
<i>Baccha babista</i> = <i>Baccha clavata</i>	80	6	.....
<i>clavata</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>cognata</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>fuscipennis</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>lugens</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>Bacillus alvei</i>	94	1	.....
<i>brandenburgiensis</i> probably= <i>Bacillus larvæ</i>	94	3	.....
<i>burri</i> probably= <i>Bacillus larvæ</i>	94	3	.....
<i>entomotoxicon</i> , bacterial disease of <i>Anasa tristis</i>	39, rev. 2	4	.....
<i>larvæ</i> , cause of American foul brood.....	94	1-4	.....
<i>tracheophilus</i> (see also <i>Neocosmospora vasinfecta</i>). transmission by <i>Anasa tristis</i>	39, rev. 2	2	.....
X.....	94	1	.....
Bacterial disease of <i>Malacosoma americana</i>	98	6	.....
wilt disease of cucurbits, cotton, and cowpeas. (See <i>Bacil- lus tracheophilus</i> and <i>Neocosmospora vasinfecta</i> .)			
Bagging grapes against rose-chaffer.....	11, rev.	4	.....
Bagworm (<i>Thyridopteryx ephemeraeformis</i>); circular.....	97	1-10	1-11
on catalpa.....	96	1	.....
remedies.....	15	3, 4	.....
remedies.....	97	8-10	.....
Bakeries, infestation by cockroaches.....	51, rev.	7	.....
<i>Balaninus caryæ</i> , general account.....	99	12, 14-15	10, 13
remedies.....	99	14-15	.....
<i>obtusius</i> , general account.....	99	15	.....
remedies.....	99	15	.....
<i>proboscideus</i> , general account.....	99	2-4, 5-6	2-4, 8, 9 (1, 4, 6)
remedies.....	99	6, 9-12	.....
<i>rectus</i> , general account.....	99	2, 4-6	5-7, 9 (2, 3, 5)
remedies.....	99	6, 9-12	.....
Balsam apple, wild. (See <i>Echinocystis lobata</i> .)			
Banding against fall canker-worm.....	9	4	.....
peach-tree borer.....	17	3	.....
spring canker-worm.....	54	3-4	.....
BANKS, NATHAN, circular, "Mites and Lice on Poultry".....	9	2, 3	.....
Bark beetle fruit. (See <i>Scolytus rugulosus</i> .)	92	1-8	1-6
tree. See <i>Scolytus rugulosus</i> .)			
larger fir-tree. (See <i>Hylesinus granulatus</i> .)			
western hemlock. (See <i>Hylesinus</i> n. sp.)			
maggot, Alpine fir.....	61	9, 10	.....
hemlock. (See <i>Cheilosia alaskensis</i> .)			
lowland fir. (See <i>Cheilosia hoodianus</i> .)			
Sitka spruce.....	61	9, 10	.....
yellow pine, injury to <i>Pinus ponderosa</i> and <i>P. murrayana</i>	61	9	.....
Barley, food plant of <i>Aphis maidis</i>	86	2	.....
(<i>Cecidomyia</i>) <i>Mayetiola destructor</i>	12, rev.	7	.....
<i>Toxoptera graminum</i>	70	1	.....
little. (See <i>Hordeum pusillum</i> .)	85	4	.....
Barriers against fruit-tree bark-beetle.....	93, rev.	2, 5	.....
round-headed apple-tree borer.....	29, rev.	7	.....
Basket worm. (See Bagworm.)	32, rev. 3	6	.....
<i>Bassus letatorius</i> , parasite of syrphus flies that prey upon <i>Macro- siphum pisi</i>	43, ed. 2	5	.....
Bean fly, colloquial name for <i>Pegomya fusciceps</i>	63, ed. 2	1	.....
food plant of <i>Aleyrodes vaporariorum</i>	57	2	.....
<i>Aphis gossypii</i>	80	5	.....
<i>Ceresa bubalus</i>	23	4	.....
<i>Diabrotica 12-punctata</i>	59	3, 4	.....
<i>longicornis</i>	59	7	.....
<i>vittata</i>	31, rev. 2	2	.....
<i>Macrodactylus subspinosus</i>	11, rev.	2	.....
<i>Pegomya fusciceps</i>	63, ed. 2	1	.....
<i>Tetranychus gloveri</i>	65	3	.....
Beans as trap plants against striped cucumber beetle.....	31, rev. 2	5-6	.....
Bedbug (<i>Cimex lectularius</i>), circular.....	47, rev.	1-8	1-3
hydrocyanic-acid gas as remedy.....	46, rev.	1, 2	.....
prey of cockroaches.....	51, rev.	5	.....
probable prey of <i>Scutigera forceps</i>	48	2	.....
remedies.....	47, rev.	6-8	.....

	Circular No.	Page.	Figure.
Beech, food plant of <i>Malacosoma americana</i>	98	2	
<i>Pulvinaria innumerabilis</i>	64		
probable food plant of <i>Chrysobothris femorata</i>	32, rev. 3	10	
Bee-escape treatment against American and European foul broods..	79	3-4	
Beef meal, infestation by <i>Tineola biselliella</i>	36, rev.	5	
Bees, brood diseases, circular.....	79	1-5	
feeding upon honeydew from aphides.....	80	1	
Beet, food plant of <i>Aphis gossypii</i>	80	5	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Pegomya fusciceps</i>	63, ed. 2	2	
Beetles, enemies of canker-worms.....	9	2	
predaceous on house-fly larvæ.....	35	8	
Begonia, food plant of <i>Aphis gossypii</i>	80	5	
Belgium, laws relative to importation of American plants, trees, and fruits.....	41	1	
Belladonna, food plant of <i>Leptinotarsa decemlineata</i>	87	8	
Benzine against bedbug.....	47, rev.	7	
carpet beetle.....	5, rev.	3	
clothes moths.....	36, rev.	6	
clover mite.....	19, ed. 2	4	
fleas.....	13	4	
powder-post beetles.....	55	4	
<i>Benzoin benzoin</i> , food plant of <i>Eulecanium nigrofasciatum</i>	88	2	
Bergamot, wild. (See <i>Monarda fistulosa</i> .)			
Berries, food plants of <i>Macrodactylus subspinosus</i>	11, rev.	2	
Bicarbonate of soda. (See Soda.)			
Bidens, food plant of <i>Diabrotica 12-punctata</i>	59	3	
Birch, white, probable food plant of <i>Chrysobothris femorata</i>	32, rev. 3	10	
Birds as disseminators of San Jose scale.....	3	6	
enemies of canker-worms.....	9	2	
<i>Diabrotica 12-punctata</i>	59	5	
grasshoppers.....	84	14	
hosts of <i>Cimex</i> spp.....	47, rev.	3	
malaria thereof carried by mosquitoes.....	40	1	
Bisulphid of carbon. (See Carbon bisulphid.)			
Biting habit of <i>Stomoxys calcitrans</i>	35	1	
Black aphid, colloquial name for <i>Aphis gossypii</i>	71, rev.	1	
beetle, colloquial name for <i>Blatta orientalis</i>	80	5	
Blackberry, food plant of <i>Anthonomus signatus</i>	51, rev.	1	
<i>Macrodactylus subspinosus</i>	21, rev.	2	
Blackbirds, enemies of grasshoppers.....	11, rev.	4	
Black knot. (See <i>Plowrightia morbosa</i> .)	84	4	
<i>Blacus fuscipes</i> , parasite of <i>Scolytus rugulosus</i>	29, rev.	5	
Blankets, horse, food of <i>Trichophaga tapetzella</i>	36, rev.	5	
<i>Blarina brevicauda</i> , probable enemy of <i>Isosoma tritici</i>	66, rev.	6	
<i>Blatta orientalis</i> , general account.....	51, rev.	3, 8-9	4
remedies.....	51, rev.	11-14	
<i>Blattella germanica</i> , general account.....	51, rev.	3, 7, 9-10	5
remedies.....	51, rev.	11-14	
"Blight, American," foreign name for woolly aphid of apple.....	20, rev.	1	
"Blights," colloquial name for work of chestnut weevil larvæ.....	99	2	
food of <i>Diabrotica longicornis</i>	59	7	
Blister beetle, striped. (See <i>Epicauta vittata</i> .)			
beetles, the "old-fashioned potato bugs".....	87	3	
Blowfly, common name for <i>Calliphora erythrocephala</i>	35	2	
Blueberry. (See <i>Vaccinium</i> sp.)	71, rev.	2	
Bluebottle fly. (See <i>Calliphora erythrocephala</i> and <i>Lucilia cæsar</i> .)			
small. (See <i>Phormia terrænovæ</i> .)			
Blue-grass, Kentucky. (See <i>Poa pratensis</i> .)			
Bluejay, enemy of <i>Malacosoma americana</i>	98	6	
Boards, barrier against peach-tree borer.....	54	4	
Boats, infestation by <i>Cimex lectularius</i>	47, rev.	2	
cockroaches.....	51, rev.	3	
Bobwhite. (See Quail.)			
<i>Bætomus subapterus</i> , parasite of <i>Mayetiola destructor</i>	70	12-13	16
Boll weevil. (See Weevil, Mexican cotton-boll.)			
Bone, dissolved, ineffective against strawberry weevil.....	21, rev.	7	
Book bindings and paste eaten by cockroaches.....	51, rev.	4-5	
lice, hydrocyanic-acid gas as remedy.....	46, rev.	1	
Books, destruction by <i>Termes flavipes</i>	50, rev.	4, 5	
injury by cockroaches.....	51, rev.	4-5	
<i>Lepisma saccharina</i>	49	1, 2	
<i>Boophilus annulatus</i> on sheep, circular.....	91	1-3	
Borax and sugar against ants.....	34, rev.	4	
Bordeaux mixture against periodical cicada.....	89	4	
strawberry weevil.....	21, rev.	8	
and arsenate of lead against fungous diseases and striped cucumber beetle.....	31, rev. 2	6-7	
rose-chaffer.....	11, rev.	3	
strawberry weevil.....	21, rev.	8, 9	
arsenicals against apple-tree tent caterpillar.....	98	8	
southern corn root-worm.....	59	5	

	Circular No.	Page.	Figure.
Bordeaux mixture and kerosene emulsion against pear-tree psylla.	7	8	.....
Paris green against strawberry weevil.....	21, rev.	8, 9	.....
Borer, flat-headed apple-tree. (See <i>Chrysobothris femorata</i> .)			
peach-tree. (See <i>Sannina exilis</i> .)			
round-headed apple-tree. (See <i>Saperda candida</i> .)			
spotted apple-tree. (See <i>Saperda crenata</i> .)			
squash-vine. (See <i>Melittia satyriniformis</i> .)			
Borers, colloquial name for chestnut weevil larvæ.....	99	2	.....
pin, injury to girdled cypress.....	82	1-3	.....
Bot-fly, colloquial name for <i>Hypoderma lineata</i>	25	1	.....
Box elder, food plant of <i>Chrysobothris femorata</i>	32, rev. 3	9	.....
<i>Leptocoris trivittatus</i>	28	1-3	.....
<i>Pulvinaria innumerabilis</i>	64	2	.....
<i>Thyridopteryx ephemeriformis</i>	97	4	.....
<i>Brachynus kansanus</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	10	.....
<i>Bracon anthonomi</i> , parasite of <i>Anthonomus signatus</i>	21, rev.	4	.....
<i>charys</i> , parasite of <i>Chrysobothris femorata</i>	32, rev. 3	11	.....
<i>gelechiae</i> , parasite of <i>Malacosoma americana</i>	98	5	.....
<i>pectinator</i> , parasite of <i>Chrysobothris femorata</i>	32, rev. 3	11	.....
Bran mash and Paris green against imported cabbage worm.....	60	7	.....
poisoned, against grasshoppers.....	84	8	.....
Bridges, destruction by white ants.....	50, rev.	1	.....
Brimstone (see also Sulphur).			
against clover mite.....	19, ed. 2	4	.....
Brine against powder-post beetles.....	55	4	.....
British Columbia, laws relative to importation of American plants, trees, and fruits.....	41	1	.....
Broccoli, food plant of <i>Murgantia histrionica</i>	10	2	.....
Brodåtare, Swedish name for <i>Blatta orientalis</i>	51, rev.	9	.....
Bromus, food plant of <i>Mayetiola destructor</i> or related species.....	70	7	.....
<i>hordeaceus</i> , food plant of <i>Toxoptera graminum</i>	85	4	.....
<i>porteri</i> , food plant of <i>Toxoptera graminum</i>	93, rev.	5	.....
possible food plant of <i>Toxoptera graminum</i>	85	4	.....
<i>sp.</i> , food plant of <i>Toxoptera graminum</i>	85	4	.....
<i>unioloides</i> , food plant of <i>Diabrotica 12-punctata</i>	93, rev.	5	.....
Brood, American foul. (See Foul brood, American.)	59	4	.....
chilled, overheated, or starved, of bees.....	79	5	.....
European foul. (See Foul brood, European.)			
"pickle," of bees.....	79	5	.....
Broom corn, food plant of <i>Aphis maidis</i>	86	2	.....
Brown-tail moth. (See <i>Euproctis chrysorrhæa</i> .)			
<i>Bruchophagus funebris</i> (see also Clover-seed chalcids).			
general account.....	69	7-9	5-8
remedies.....	69	9	.....
Brush and cultivator method against pea aphid.....	43, ed. 2	7-8	.....
pan method against pea aphid.....	43, ed. 2	8-9	.....
Brushing against Colorado potato beetle.....	87	12	.....
"green bug".....	85	6	.....
<i>Bryobia pratensis</i> , circular.....	93, rev.	19	.....
remedies.....	19, ed. 2	1-4	1
Bud-worm, colloquial name for <i>Diabrotica 12-punctata</i>	19, ed. 2	4	.....
tobacco. (See <i>Chloridea virescens</i> and <i>Heliothis obsoleta</i> .)	59	2	.....
Buffalo, host of <i>Hypoderma lineata</i>	25	1	.....
moth. (See <i>Anthrenus scrophulariæ</i> .)			
tree-hopper. (See <i>Ceresa bubalus</i> .)			
Buhach. (See Pyrethrum.)			
Buildings, destruction by white ants.....	50, rev.	1, 2	.....
Bumblebee, agent in pollination of red clover.....	69	1, 2	.....
Bumelia, food plant of <i>Eulecanium nigrofasciatum</i>	88	2	.....
Burdock. (See Arctium.)			
BURGESS, A. F., circular, "Requirements to be Complied with by Nurserymen or Others who Make Interstate Shipments of Nursery Stock".....	75, rev. 2	1-9	.....
BURKE, H. E., circular, "Black Check in Western Hemlock".....	61	1-10	1-5
Burlap barriers against fruit-tree bark-beetle.....	29, rev.	7	.....
Burning against apple-tree tent caterpillar.....	98	7-8	.....
boll weevil.....	56	3	.....
corn stalk-borer.....	95, rev.	5	.....
"green bug".....	16	3	.....
Hessian fly.....	93, rev.	19	.....
joint-worm.....	12, rev.	3-4	.....
powder-post beetles.....	70	14	.....
squash bug.....	66, rev.	5	.....
Burying of nuts in soil against chestnut weevils.....	55	3-4	.....
Butterfly, cabbage. (See <i>Pontia rapæ</i> .)	39, rev. 2	5	.....
rape, colloquial name for <i>Pontia rapæ</i>	99	11	.....
southern cabbage. (See <i>Pontia protodice</i> .)			
white, colloquial name for <i>Pontia rapæ</i>	60	1	.....
Buttonweed. (See <i>Diodia</i> .)	60	1	.....

	Circular No.	Page.	Figure.
C.			
Cabbage aphid. (See <i>Aphis brassicae</i> .)			
bug, harlequin. (See <i>Murgantia histrionica</i> .)			
butterfly. (See <i>Pontia rapæ</i> .)			
southern. (See <i>Pontia protodice</i> .)			
food plant of <i>Aphis brassicae</i>	80	15	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Leptinotarsa decemlineata</i>	87	8	
<i>Murgantia histrionica</i>	10	1-2	
<i>Pegomya brassicae</i>	63, ed. 2	3	
<i>fuscipectus</i>	63, ed. 2	2	
<i>Pontia protodice</i>	60	3	
<i>rapæ</i>	60	4	
hairworm. (See <i>Mermis albicans</i> .)			
looper. (See <i>Autographa brassicae</i> .)			
maggot. (See Maggot, cabbage, and Maggot, radish.)			
rattlesnake, colloquial name for <i>Mermis albicans</i>	62, rev.	2	
snake, colloquial name for <i>Mermis albicans</i>	62, rev.	1, 2	
worm, colloquial name for <i>Mermis albicans</i>	62, rev.	2	
imported. (See <i>Pontia rapæ</i> .)			
southern. (See <i>Pontia protodice</i> .)			
"Calico back." (See <i>Murgantia histrionica</i> .)			
California, requirements relative to shipment of nursery stock.....	75, rev. 2	2	
<i>Calliphora erythrocephala</i> in houses, habits.....	35	2	
<i>Calosoma calidum</i> , enemy of <i>Leptinotarsa decemlineata</i>	71, rev.	2	
<i>scrutator</i> , enemy of <i>Malacosoma americana</i>	87	10	
<i>Calypso tibialis</i> . (See <i>Sigalphus tibialis</i> .)	98	6	
<i>Camnula pellucida</i> , circular.....	53	1-3	1
destructive to grain and grass crops, but little			
injurious to alfalfa.....	84	1	
remedies.....	53	2-3	
Camphor against ants.....	34, rev.	4	
clothes moths.....	36, rev.	6	
as remedy for "chiggers".....	77	6	
Canada, laws relative to importation of American plants, trees, and			
fruits.....	41	2	
shipment of nursery stock.....	75, rev. 2	9	
Canker-worm, fall. (See <i>Anisophteryx pomataria</i> .)			
spring. (See <i>Paleacrista vernata</i> .)			
Canker-worms, circular.....	9	1-4	1-4
remedies.....	9	2-3, 3-4	
Canna, food plant of <i>Diabrotica 12-punctata</i>	59	3	
Cannibalism among cockroaches, probability.....	51, rev.	4	
larvæ of <i>Pissodes strobi</i>	90	7	
white ants.....	50, rev.	4	
Cantaloupe (see also Cucurbits, Melons, and Muskmelon).			
food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>vittata</i>	31, rev. 2	2	
louse, colloquial name for <i>Aphis gossypii</i>	80	5	
Cape of Good Hope, laws relative to importation of American plants,			
trees, and fruits.....	41	2	
Carbolic acid against ox warble.....	25	9	
periodical cicada, ineffective.....	89	4	
strawberry weevil.....	21, rev.	8	
as remedy for "chiggers".....	77	6	
and kerosene against common hen louse.....	92	6	
lime against common hen louse.....	92	6	
oils against ox warble.....	25	8	
soap against fruit-tree bark-beetle.....	29, rev.	7	
peach-tree borer.....	17	3	
round-headed apple-tree borer.....	32, rev. 3	6	
whitewash against chicken mite.....	92	3	
emulsion against cabbage maggot.....	63, ed. 2	4	
seed-corn maggot.....	63, ed. 2	2	
of no value against locust borer.....	83	6	
soap, Paris green, lime, and clay against peach-tree			
borer.....	17	4	
	54	4	
Carbon bisulphid against ants.....	34, rev.	4	
cabbage maggot.....	63, ed. 2	5	2
carpet beetle.....	5, rev.	4	
chestnut weevils.....	99	10	
cockroaches.....	51, rev.	13	
imported onion maggot.....	63, ed. 2	7	
little red ant.....	34, rev.	2	
melon aphid.....	80	9	
peach-tree borer.....	54	5	
pecan weevil, possible utility.....	99	15	
soft-bodied insect pests of cucurbits.....	80	16	
subterranean insects.....	1	5	
woolly aphid.....	20, rev.	4, 5	
Cardinal, enemy of <i>Leptinotarsa decemlineata</i>	87	12	

	Circular No.	Page.	Figure.
Carnations, fumigation with hydrocyanic-acid gas.....	37, rev. 2	4	
Carpet beetle. (See <i>Anthrenus scrophulariæ</i> .)			
black. (See <i>Attagenus piceus</i> .)			
moths. (See Moths, clothes.)			
Carpets, food of <i>Anthrenus scrophulariæ</i>	5, rev.	1	
<i>Tinea pellionella</i>	36, rev.	3	
<i>Trichophaga tapetzella</i>	36, rev.	5	
reported injury by <i>Lepisma saccharina</i>	49	2	
<i>Carpocapsa pomonella</i> , host of <i>Mermis albicans</i>	62, rev.	3	
Carrion, breeding place of <i>Musca domestica</i>	35	5	
<i>Catalpa bignonioides</i> , food plant of <i>Ceratonia catalpæ</i>	71, rev.	3	
eastern. (See <i>Catalpa bignonioides</i> .)	96	1	
hardy or western. (See <i>Catalpa speciosa</i> .)			
<i>speciosa</i> , food plant of <i>Ceratonia catalpæ</i>	96	1	
sphinx. (See <i>Ceratonia catalpæ</i> .)			
Catbird, enemy of <i>Ceratonia catalpæ</i>	96	6	
grasshoppers.....	84	4	
Caterpillar lime. (See Raupenleim and Dendrolene.)			
Cat, host of <i>Pulex serraticeps</i>	13	3-4	
<i>Catolaccus anthonomi</i> , parasite of <i>Anthonomus signatus</i>	21, rev.	4	
<i>incertus</i> , parasite of <i>Anthonomus signatus</i>	21, rev.	4	
Cattle, host of <i>Hypoderma bovis</i> and <i>Hypoderma lineata</i>	25	1-10	
CAUDELL, ANDREW N., CURRIE, ROLLA P., and, circular, "An In- dex to Circulars 1 to 100 of the Bureau of Entomology".....	100	i-ii, 1-49	
Cauliflower, food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Pegomya brassicæ</i>	63, ed. 2	3	
<i>Pontia rapæ</i>	60	4	
Caustic potash and soap against round-headed apple-tree borer.....	32, rev. 3	6	
Ceanothus, food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Cecidomyia destructor</i> (see also <i>Mayetiola destructor</i>). circular.....	12, rev.	1-4	
= <i>Mayetiola destructor</i>	70	1	
remedies.....	12, rev.	3-4	
<i>leguminicola</i> . (See Clover-flower midge.)			
Cedar against clothes moths.....	36, rev.	6	
<i>Celatoria diabroticæ</i> , parasite of <i>Diabrotica 12-punctata</i>	59	5	2
<i>vittata</i>	31, rev. 2	4	
<i>Cenocaulus populator</i> , parasite of <i>Sapeyda candida</i>	32, rev. 3	5	
Centipede, house (<i>Scutigera forceps</i>), circular.....	48	1-4	1-2
enemy of house fly.....	35	8	
remedies.....	71, rev.	9	9
<i>Ceratonia catalpæ</i> , circular.....	48	4	
remedies.....	96	1-7	1-2
Cereal products, food of coackroaches.....	96	6-7	
<i>Ceresa bubalus</i> , general account.....	51, rev.	4	
remedies.....	23	1-4	1-2
<i>Cercis canadensis</i> , food plant of <i>Anthonomus signatus</i>	21, rev.	2	
<i>chinensis</i> , food plant of <i>Chrysobothris femorata</i>	32, rev. 3	10	
<i>japonica</i> = <i>Cercis chinensis</i>	32, rev. 3	10	
Chaitophorus.....	93, rev.	17	
Chalcididae, parasites of <i>Chrysobothris femorata</i>	32, rev. 3	11	
Chalcis fly, enemy of canker-worms.....	9	2	
<i>ovata</i> , parasite of <i>Thyridopteryx ephemeraformis</i>	97	7	9
<i>Cheilosia alaskensis</i> , cause of "black check" in western hemlock.....	61	2-8	1-5
remedies.....	61	8, 10	
<i>hoodianus</i> , injury to lowland fir.....	61	8-9, 10	
Chenopodium, food plant of <i>Aphis gossypii</i>	80	5	
Cherry, black Tartarian, not infested by <i>Aspidiotus perniciosus</i>	3		
food plant of <i>Bryobia pratensis</i>	19	1	
<i>Conotrachelus nenuphar</i>	73	4, 5	
<i>Diabrotica 12-punctata</i>	59	3	
<i>vittata</i>	31, rev. 2	2	
<i>Eriocampoides limacina</i>	26	1, 3	
<i>Eulecanium nigrofasciatum</i>	88	2	
<i>Macrodactylus subspinosus</i>	11, rev.	2	
<i>Sannina exitiosa</i>	17	1	
<i>Scolytus rugulosus</i>	54	1-2	
ground. (See Physalis.)	29, rev.	2	
probable food plant of <i>Chrysobothris femorata</i>	32, rev. 3	10	
wild, food plant of <i>Malacosoma americana</i>	98	2	
Chess, soft. (See <i>Bromus hordeaceus</i> .)			
Chestnut borer, two-lined. (See <i>Agrilus bilineatus</i> .)			
food plant of <i>Balaninus proboscideus</i>	99	2	
<i>rectus</i>	99	2	
<i>Chrysobothris femorata</i>	32, rev. 3	9	
weevil, larger. (See <i>Balaninus proboscideus</i> .)			
lesser. (See <i>Balaninus rectus</i> .)			
weevils, general account.....	99	1-12	
remedies.....	99	6-12	

	Circular No.	Page.	Figure.
Chickadee, enemy of <i>Malacosoma americana</i>	98	6	.....
Chicken (see also Poultry and Fowls.)			
enemy of <i>Balaninus caryæ</i>	99	14	.....
<i>Conotrachelus nenuphar</i>	73	7	.....
mite. (See <i>Dermanyssus gallinæ</i> .)			
tick. (See <i>Argas miniatus</i> .)			
Chickens, prairie, enemies of grasshoppers	84	4	.....
Chickweed, food plant of <i>Aphis gossypii</i>	80	5	.....
"Chiggers," circular	77	1-6	1-3
colloquial name for harvest mites	77	1	.....
eradication in the field	77	6	.....
Chigoe. (See <i>Sarcophylla penetrans</i> .)			
<i>Chilocorus bivulnerus</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>Leptinotarsa decemlineata</i>	87	10	.....
<i>Pulvinaria innumerabilis</i>	64	3	.....
Chinch bug (<i>Blissus leucopterus</i>), a wheat pest in the United States.	70	1	.....
prey of bobwhite or quail	87	11	.....
colloquial name for <i>Cimex lectularius</i>	47, rev.	2	.....
Chinquapin, food plant of <i>Balaninus proboscideus</i>	99	4	.....
"Chintze," colloquial name for <i>Cimex lectularius</i>	47, rev.	2	.....
<i>Chionaspis</i> sp., on <i>Davallia Mooreana</i>	37, rev. 2	2	.....
<i>Chiropachys colon</i> , parasite of <i>Scolytus rugulosus</i>	29, rev.	6	4
CHITTENDEN, F. H., circular, "Harvest Mites, or Chiggers"	77	1-6	1-3
"Root Maggots and How to Control Them"	63, ed. 2	1-7	1-5
"The Cabbage Hair-worm"	62, rev.	1-6	1
"The Colorado Potato Beetle (<i>Leptinotarsa decemlineata</i> L.)"	87	1-15	1-6
"The Common Squash Bug (<i>Anasa tristis</i> De G.)"	39, rev. 2	1-5	1-3
"The Corn Root-worms"	59	1-8	1-3
"The Destructive Green Pea Louse (<i>Nectarophora destructor</i> Johns.)"	43	1-8	1-3
"The Fruit-tree Bark-beetle (<i>Scolytus rugulosus</i> Ratz.)"	29, rev.	1-8	1-5
"The Imported Cabbage Worm (<i>Pontia rapæ</i> Linn.)"	60	1-8	1-6
"The Larger Apple-tree Borers"	32, rev. 3	1-11	1-3
"The Melon Aphis (<i>Aphis gossypii</i> Glov.)"	80	1-16	1-6
"The Nut Weevils"	99	1-15	1-14
"The Pea Aphis (<i>Macrosiphum pisi</i> Kalt.)"	43, ed. 2	1-10	1-7
"The Rose-chaffer (<i>Macrodactylus sub-spinosus</i> Fab.)"	11, rev.	1-14	1
"The Squash-vine Borer (<i>Melittia satyriniformis</i> Hbn.)"	38, rev. 2	1-6	1-2
"The Strawberry Weevil (<i>Anthonomus signatus</i> Say)"	21, rev.	1-10	1-5
"The Striped Cucumber Beetle (<i>Diabrotica vittata</i> Fab.)"	31, rev. 2	1-8	1-2
"The Two-lined Chestnut Borer (<i>Agilus bilineatus</i> Weber)"	24, rev.	1-7	1
HOWARD, L. O., and, circular, "The Bagworm (<i>Thyridopteryx ephemeraformis</i> Haw.)"	97	1-10	1-11
"The Catalpa Sphinx (<i>Ceratomia catalpæ</i> Bdv.)"	96	1-7	1-2
<i>Chloridea virescens</i> , Paris green as remedy	68	3-4	.....
.....	35	6	.....
Chlorid of lime against house flies	71, rev.	6	.....
potash against seed-corn maggot	63, ed. 2	3	.....
Chokeberry, food plant of <i>Diabrotica vittata</i>	31, rev. 2	2	.....
<i>Saperda candida</i>	32, rev. 3	3	.....
Chrysanthemum, food plant of <i>Aleyrodes vaporariorum</i>	57	2	.....
<i>Diabrotica 12-punctata</i>	59	3	.....
<i>Chrysobothris femorata</i> , general account	32, rev. 3	8-11	3
remedies	32, rev. 3	11	.....
<i>Chrysopa albicornis</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>attenuata</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
larvæ, enemies of <i>Tetranychus gloveri</i>	65	3	.....
<i>lineaticornis</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>nigricornis</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>oculata</i> , enemy of aphides	81	8	8
<i>Aphis gossypii</i>	80	6	.....
<i>Macrosiphum pisi</i>	43, ed. 2	5	3
<i>Psylla pyricola</i>	7	5-7	.....
<i>plorabunda</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
Cicada, periodical (<i>Tibicen septendecim</i>), a new nomenclature for			
broods, circular	45	1-8	.....
in 1897, circular	22	1-4	.....
1898, circular	30	1-3	.....

	Circular No.	Page.	Figure.
Cicada, periodical (<i>Tibicen septendecim</i>) in 1902, circular.....	44	1-4	1-2
1906, circular.....	74	1-5	1-3
1907, circular.....	89	1-4	1-3
17-year brood X, 1902.....	44	1-3	
XI, 1903.....	44	2	
XIV, 1906.....	74	1-4	
XV (Riley), 1880-1897-1914.....	22	2-3	
XVII (Riley), 1881-1898.....	30	2-3	
13-year brood VI (Riley), 1884-1897-1910.....	22	3-4	
VII (Riley), 1885-1898.....	30	1-2	
XVIII.....	74	4-5	
XIX, 1907.....	89	2-4	2
septendecim. (See Cicada, periodical.)			
<i>Cichorium intybus</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
<i>Cimex lectularius</i> . (See Bedbug.)			
Cinquefoil, yellow-flowered. (See <i>Potentilla canadensis</i> .)			
Circulars of the Bureau of Entomology, index to Nos. 1 to 100.....	100	i-ii, 1-49	
<i>Cissus discolor</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
Citrus, food plants of <i>Aleyrodes citri</i>	57	4	
Clay and cow manure against two-lined chestnut borer.....	24, rev.	6	
lime, Paris green, soap, and carbolic acid against peach-tree borer.....	17	4	
	54	4	
Cleome, food plant of <i>Pontia rapae</i>	60	4	
Clerid larva, enemy of <i>Scolytus rugulosus</i>	29, rev.	6	
<i>Clerus ichneumoneus</i> , enemy of <i>Scolytus rugulosus</i>	29, rev.	6	
<i>Clivina impressifrons</i> , circular.....	78	6	1-2
remedies.....	78	5-6	
<i>planicollis</i> , habitat.....	78	1	
Clothes moth, southern. (See <i>Tineola biselliella</i> .)			
moths. (See Moths, clothes.)			
Clothing, starched, eaten by <i>Lepisma saccharina</i>	49	1, 2	
Clover, alsike, food plant of <i>Hylastinus obscurus</i>	67	3	
crimson, food plant of <i>Bruchophagus funebris</i>	69	8	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Macrosiphum pisi</i>	43, ed. 2	3, 4	
flower midge (<i>Dasynceura leguminicola</i>), general account.....	69	3-7	2-4
remedies.....	69	6-7	
work in relation to that of clover-seed chalcids.....	69	2	
work in relation to that of <i>Phytonomus punctatus</i>	69	1-2	
food plant of <i>Aphis gossypii</i>	80	5	
<i>Bryobia pratensis</i>	19, ed. 2	1, 2, 4	
<i>Diabrotica 12-punctata</i>	59	3	
<i>longicornis</i>	59	7	
leaf weevil. (See <i>Phytonomus punctatus</i> .)			
mammoth, food plant of <i>Hylastinus obscurus</i>	67	3	
mite. (See <i>Bryobia pratensis</i> .)			
red (see also <i>Trifolium pratense</i>).			
food plant of <i>Bruchophagus funebris</i>	69	8	
<i>Dasynceura leguminicola</i>	69	5	
<i>Hylastinus obscurus</i>	67	3-4	
<i>Macrosiphum pisi</i>	43, ed. 2	4	
insects affecting production of seed, circular.....	69	1-9	1-8
root-borer. (See <i>Hylastinus obscurus</i> .)			
seed chalcids (see also <i>Bruchophagus funebris</i>).			
work in relation to that of clover-flower midge.....	69	2	
seldom or never eaten by <i>Leucania unipuncta</i>	4	1	
Cluster fly. (See <i>Pollenia rudis</i> .)			
<i>Cnemidocoptes gallinae</i> , parasite of chickens.....	92	4	
<i>mutans</i> , cause of "scaly-leg" in chickens.....	92	3	
Coal oil. (See Kerosene.)			
Cobwebs, food of <i>Tineola biselliella</i>	36	4	
<i>Coccinella 9-notata</i> , enemy of <i>Aphis gossypii</i>	80	6, 7	3, f, g
<i>Leptinotarsa decemlineata</i>	87	10	
<i>Macrosiphum pisi</i>	43, ed. 2	5	
<i>Schizoneura lanigera</i>	20, rev.	6	
<i>Toroptera graminum</i>	85	5	
<i>sanguinea</i> (see also <i>Cycloneda sanguinea</i>).			
enemy of <i>Leptinotarsa decemlineata</i>	87	10	
<i>Macrosiphum pisi</i>	43, ed. 2	5	
<i>Toroptera graminum</i>	85	5	
<i>Coccophagus flavoscutellum</i> , parasite of <i>Pulvinaria innumerabilis</i>	64	4	
<i>lecanii</i> , parasite of <i>Pulvinaria innumerabilis</i>	64	4	
sp., parasite of <i>Eulecanium nigrofasciatum</i>	88	3	

	Circular No.	Page.	Figure.
Cocklebur, food plant of <i>Euthrips nicotianæ</i>	68	2	
Cockroach, American. (See <i>Periplaneta americana</i> .)			
Australian. (See <i>Periplaneta australasiæ</i> .)			
black. (See <i>Blatta orientalis</i> .)			
German. (See <i>Blattella germanica</i> .)			
oriental. (See <i>Blatta orientalis</i> .)			
Cockroaches, circular.....	51, rev.	1-14	1-5
enemies of bedbug.....	47, rev.	7	
hydrocyanic-acid gas as remedy.....	51, rev.	5	
prey of <i>Scutigera forceps</i>	46, rev.	1.2	
remedies.....	48	2	
Codling moth (<i>Carpocapsa pomonella</i>), arsenicals as insecticides	51, rev.	11-14	
quarantine regulations of New Zealand against introduction.....	1	6	
COLCORD, MABEL, circular, "List of Publications of the Bureau of Entomology," rev. to Feb. 1, 1910.....	41	4	
Cold. (See Temperature and Weather.)	76	1-32	
storage against black carpet beetle.....	36, rev.	8	
clothes moths.....	36, rev.	7-8	
chestnut weevils.....	99	11	
Coleus, food plant of <i>Aleyrodes vaporariorum</i>	57	2	
<i>Orthesia insignis</i>	37, rev. 2	3	
fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
Collodion, remedy for "chiggers".....	77	6	
Colorado, requirements relative to shipment of nursery stock.....	75, rev. 2	2	
<i>Comys fusca</i> , parasite of <i>Pulvinaria innumerabilis</i>	64	4	
Connecticut, requirements relative to shipment of nursery stock.....	75, rev. 2	2	
<i>Conotrachelus nenuphar</i> . (See Curculio, plum.)			
<i>Contarinia</i> spp., enemies of <i>Aphis gossypii</i>	80	6	
<i>tritici</i>	69	3	
Cooperation against catalpa sphinx.....	96	7	
chestnut weevils.....	99	12	
Colorado potato beetle.....	87	15	
grasshoppers.....	84	9	
Copper compounds ineffective against rose-chaffer.....	11, rev.	3	
COQUILLETT, D. W., circular, "Canker-worms".....	9	1-4	1-4
"Synoptic Tables of the North American Mosquitoes".....	40	4-7	
Corn, food plant of <i>Aphis maidi-radicis</i>	86	1, 4-9	
<i>maidis</i>	86	1-3	
<i>Diabrotica 12-punctata</i>	59	2, 3, 4	
<i>longicornis</i>	59	7	
<i>vittata</i>	31, rev. 2	2	
<i>Diatraea saccharalis</i> [corn stalk-borer].....	16	1-2	
<i>Leucania unipuncta</i>	4	1	
<i>Macrodactylus subspinosus</i>	11, rev.	2	
<i>Pegomya fusciceps</i>	63, ed. 2	1	
<i>Tetranychus gloveri</i>	65	3	
<i>Toxoptera graminum</i>	85	4	
{ 93, rev. 5			
leaf aphid. (See <i>Aphis maidis</i> .)			
meal against imported cabbage worm.....	60	8	
and Paris green against tobacco budworms.....	68	3-4	
root aphid. (See <i>Aphis maidi-radicis</i> .)			
worm, Southern. (See <i>Diabrotica 12-punctata</i> .)			
Western or Northern. (See <i>Diabrotica longicornis</i> .)			
worms, circular.....	59	1-8	1-3
remedies.....	59	5, 7-8	
seed eaten by <i>Cilinia impressifrons</i>	78	1-5	
treatment before planting to repel corn root-aphid.....	86	12	
stalk-borer, larger. (See <i>Diatraea saccharalis</i> .)			
Cornus, food plant of <i>Aphis gossypii</i>	80	5	
Corrosive sublimate against bedbug.....	47, rev.	7	
clothes moths.....	36, rev.	7	
Cosmos, food plant of <i>Diabrotica 12-punctata</i>	59	3	
Cotton aphid. (See <i>Aphis gossypii</i> .)			
Cotton boll weevil. (See Weevil, Mexican cotton-boll.)			
food plant of <i>Anthonomus grandis</i>	6, 14, 18, 27, 33, 56, 95, rev.		
<i>Aphis gossypii</i>	80	4	
<i>Diabrotica 12-punctata</i>	59	3	
<i>longicornis</i>	59	7	
<i>Tetranychus gloveri</i>	65	1-2	
red spider. (See <i>Tetranychus gloveri</i> .)			
seed, infestation by boll weevil.....	27	4	
{ 14 7-8			
{ 18 7-8			
{ 27 6-7			
{ 33 4-5			
{ 56			
{ 95, rev.			
stalks, early fall destruction against boll weevil.....			

	Circular No.	Page.	Figure.
Cotton, volunteer or seppa, and the boll weevil.....	14 27 33 56 95, rev.	6, 8 6 3 5 7	
Cottonwood (see also Poplar, Carolina). <i>Aradus</i> sp. under bark of dead tree.....	47, rev.	4	
injury by <i>Ceresa bubalus</i>	23	2	
<i>Oberia schaumii</i> following work of <i>Ceresa bu-</i> <i>balus</i>	23	2	
location of eggs of <i>Bryobia pratensis</i>	19, ed. 2	3	
possible host tree of <i>Chrysobothris femorata</i>	32, rev. 3	10	
Covering the plants against squash bug.....	39, rev. 2	5	
strawberry weevil.....	21, rev.	6	
young plants against striped cucumber beetle.....	31, rev. 2	4-5	
Cowbird, enemy of grasshoppers.....	84	4	
Cow manure and clay against two-lined chestnut borer.....	24, rev.	6	
Cowpea, food plant of <i>Tetranychus gloveri</i>	65	3	
Crab apple. (See Apple, crab.)			
<i>Crataegus oxyacantha</i> , food plant of <i>Aphis mali</i>	81	5	
<i>sorbi</i>	81	7	
spp., food plants of <i>Eulecanium nigrofasciatum</i>	88	8	
Creosote against fruit-tree bark-beetle.....	29, rev.	2	
two-lined chestnut borer.....	24, rev.	7	
white ants.....	50, rev.	7	
Criddle mixture against grasshoppers.....	84	9	
Crop rotation against boll weevil.....	6	5	
cabbage maggot.....	63, ed. 2	4	
corn root-aphis.....	86	9	
stalk-borer.....	16	3	
Hessian fly.....	12, rev.	4	
joint-worm.....	70	14	
western corn root-worm.....	66, rev.	7	
"Croton bug," colloquial name for <i>Blattella germanica</i>	59	8	
Crotons, fumigation with hydrocyanic-acid gas.....	51, rev.	1	
Crow, enemy of <i>Leptinotarsa decemlineata</i>	37, rev. 2	3	
<i>Malacosoma americana</i>	87	12	
malarial parasite thereof carried by mosquitoes.....	98	6	
Cuckoo, enemy of <i>Leptinotarsa decemlineata</i>	40	1	
black-billed, enemy of <i>Malacosoma americana</i>	87	12	
yellow-billed, enemy of <i>Malacosoma americana</i>	98	6	
Cuckoos, enemies of <i>Ceratomia catalpæ</i>	98	6	
grasshoppers.....	96	6	
Cucumber (see also Cucurbits). beetle, striped. (See <i>Diabrotica vittata</i>). twelve-spotted. (See <i>Diabrotica 12-punctata</i>). food plant of <i>Aleyrodes vaporariorum</i>	84	4	
<i>Diabrotica 12-punctata</i>	57	1, 2	
<i>vittata</i>	59	2, 3	
<i>Melittia satyriniformis</i>	31, rev. 2	1	
prickly. (See <i>Echinocystis lobata</i>). louse, colloquial name for <i>Aphis gossypii</i>	38, rev. 2	2	
Cucurbit insects, remedies.....	80	5	
Cucurbits (see also Cantaloupe, Cucumber, Cymling, Melons, Musk- melon, Pumpkin, Squash, and Watermelon). food plants of <i>Aphis gossypii</i>	80	16	
<i>Diabrotica longicornis</i>	80	4	
<i>Culex annulatus</i> Osten Sacken probably= <i>Culex consobrinus</i> . status.....	59	7	
<i>bigoti</i> , status.....	40	6	
<i>boschi</i> probably= <i>Culex pungens</i>	40	6	
status.....	40	7	
<i>consobrinus</i>	40	6	
distinctive characters of adult.....	40	4	
synonyms.....	40	5, 6	
<i>conterrens</i> = <i>Psorophora ciliatus</i>	40	6	
<i>cubensis</i>	40	7	
probably= <i>Culex pungens</i>	72	3	
status.....	40	7	
<i>damnosus</i> = <i>Culex tæniorhynchus</i>	40	6	
distinctive characters of adults.....	40	7	
<i>excitans</i> , <i>Culex annulatus</i> a probable synonym.....	40	4	
distinctive characters of adult.....	40	6	
<i>excrucians</i>	40	5, 6	
distinctive characters of adult.....	40	7	
<i>fasciatus</i> , distinctive characters of adult.....	40	6	
synonyms.....	40	5	
<i>fatigans</i> , distinctive characters of larva.....	40	7	
<i>ferruginosus</i>	72	3	
probably= <i>Anopheles crucians</i>	40	4	
<i>frater</i> = <i>Culex fasciatus</i>	40	5	
status.....	40	7	
<i>impatiens</i> = <i>Culex consobrinus</i>	40	6	

	Circular No.	Page.	Figure.
<i>Culex impiger</i>	40	4, 5, 7	
distinctive characters of adult	40	5	
synonyms	40	7	
<i>implacabilis</i> = <i>Culex impiger</i>	40	7	
<i>incidens</i> = <i>Culex impiger</i>	40	7	
status	40	6	
<i>inornatus</i> = <i>Culex consobrinus</i>	40	6	
<i>mexicanus</i> probably = <i>Culex posticatus</i>	40	7	
status	40	6	
<i>molestus</i> = <i>Psorophora ciliatus</i>	40	7	
<i>mosquito</i> = <i>Culex fasciatus</i>	40	7	
<i>musicus</i> = <i>Culex posticatus</i>	40	7	
<i>nigripes</i>	40	6	
<i>perturbans</i>	40	7	
distinctive characters of adult	40	6	
<i>pinguis</i> = <i>Culex consobrinus</i>	40	6	
<i>pipeus</i> , distinctive characters of larva	72	3	
<i>posticatus</i> , distinctive characters of adult	40	5	
synonyms	40	7	
<i>provocans</i> probably = <i>Culex stimulans</i>	40	7	
status	40	6	
<i>punctor</i> = <i>Culex consobrinus</i>	40	6	
<i>pungens</i>	40	1, 5	
distinctive characters of adult	40	5, 6	
habits	13	1	
synonyms	40	7	
<i>quinquefasciatus</i>	40	4	
probably = <i>Culex impiger</i>	40	7	
resting position of adult	40	3	3
<i>restuans</i> , distinctive characters of larva	72	4	
<i>rubidus</i> probably = <i>Psorophora ciliatus</i>	40	7	
status	40	6	
<i>salinarius</i> , distinctive characters of larva	72	2, 3	1
<i>signifer</i>	40	7	
distinctive characters of adult	40	6	
<i>sollicitans</i> = <i>Culex tæniorhynchus</i>	40	7	
<i>stimulans</i> , <i>Culex provocans</i> probably a synonym	40	7	
distinctive characters	40	5	
tables of North American species, adults	40	5-6	
<i>tæniatus</i> = <i>Culex fasciatus</i>	40	7	
<i>tæniorhynchus</i> , adult	40	2, 5	2
distinctive characters of adult	40	5	
synonyms	40	7	
<i>tarsalis</i>	40	7	
distinctive characters of adult	40	5, 6	
larva	72	3	
<i>territans</i> , distinctive characters of larva	72	3	
probably = <i>Culex pungens</i>	40	7	
status	40	6	
<i>testaceus</i> probably = <i>Culex consobrinus</i>	40	6	
status	40	6	
<i>triseriatus</i>	40	7	
distinctive characters of adult	40	5	
unrecognized North American species	40	6	
<i>Culicella dyari</i> , distinctive characters of larva	72	2	
Culicinae, distinctive characters of larvæ	72	1	
<i>Culiseta absobrinus</i> , distinctive characters of larva	72	4	
<i>consobrinus</i> , distinctive characters of larva	72	4	
Cultural methods against army worm	4	4	
{	14	6-8	
{	18	6-8	
{ boll weevil	27	6-7	
{	33	4-6	
{	56	1-7	
{	95, rev.	1-8	
{ buffalo tree-hopper	23	4	
{ cabbage maggot	63, ed. 2	4	
{ catalpa sphinx	96	6	
{ chestnut weevils	99	11-13	11-12
{ clover flower midge	69	6-7	
{ root-borer	67	4-5	
{ seed chalcis	69	9	
{ Colorado potato beetle	87	13	
{ corn root aphid	86	9-12	
worm, Southern	59	5	
Western	59	8	
stalk-borer	16	3	
{ cotton red spider	65	4	
{ flat-headed apple-tree borer	32, rev. 3	11	
{ fruit-tree bark-beetle	29, rev.	6-7	
{ grasshoppers	84	7-8	
{ "green bug"	85	6	
{ hazelnut weevil	93, rev.	19, 20-22	
{	99	15	

	Circular No.	Page.	Figure.
Cultural methods against Hessian fly.....	12, rev. 70	3-4 13-16	.....
imported cabbage worm.....	60	8	.....
joint-worm.....	66, rev. 83	5-7	.....
locust borer.....	80	15	.....
melon aphid.....	43, ed. 2	9-10	.....
pea aphid.....	99	14-15	.....
pecan weevil.....	74	5	.....
periodical cicada.....	73	10	.....
plum curculio.....	11, rev. 32, rev. 3	4 7	.....
rose-chafar.....	39, rev. 2	5	.....
round-headed apple-tree borer.....	38, rev. 2	5	.....
squash bug.....	21, rev. 31, rev. 2	5-6 5-6	.....
vine borer.....	68	2-3	.....
strawberry weevil.....	24, rev. 53	6 2	.....
striped cucumber beetle.....	1	6	.....
tobacco thrips.....	73	1-10	1-5
two-lined chestnut borer.....	73	6, 7-10	4-5
yellow-winged locust.....	32, rev. 3	10	.....
Curculio, plum (<i>Conotrachelus nenuphar</i>), arsenicals as insecticides.....	64	2	.....
circular remedies.....	100	i-ii-1-49	.....
Current, food plant of <i>Chrysobothris femorata</i>	49	2	.....
<i>Pulvinaria invulnerabilis</i>	35	5	.....
CURRIE, ROLLA P., and ANDREW N. CADELL, circular, "An index to Circulars 1 to 100 of the Bureau of Entomology".....	83	4	.....
Curtains, starched, eaten by <i>Lepisma saccharina</i>	17	4	.....
Cuspidors, breeding place of <i>Musca domestica</i>	54	5-6	.....
Cutting locust at certain periods to destroy locust borer.....	32, rev. 3	5-6 6-7	.....
out peach-tree borers.....	80	6	.....
round-headed apple-tree borers.....	83	1-8	1-4
useless trees against apple-tree tent caterpillar.....	83	4-8	.....
<i>Cycloneda sanguinea</i> (see also <i>Coccinella sanguinea</i>), enemy of <i>Aphis gossypii</i>	80	6	.....
<i>Cyllene robiniae</i> , circular.....	83	1-8	1-4
remedies.....	83	4-8	.....
Cymling (see also Curcubits and Squash), food plant of <i>Melittia satyriniformis</i>	38, rev. 2	3	.....
Cyperus, food plant of <i>Diabrotica 12-punctata</i>	59	4	.....
Cypress, girdled, prevention of insect injury.....	82	3-4	.....
host tree of <i>Platypus compositus</i>	82	2-3	.....
pin-borer, girdled. (See <i>Platypus compositus</i> .).....	82	1-4	1
pinhole injury, circular.....	82	1-4	1
<i>Cyrtoneura stabulans</i> (see also <i>Muscina stabulans</i>), in houses.....	35	2, 6	6
D.			
<i>Dactylis glomerata</i> , food plant of <i>Toxoptera graminum</i>	85	4	.....
<i>Dactylopius adonidum</i> on grape.....	93, rev. 37, rev. 2	5 4	.....
remedy.....	37, rev. 2	4	.....
Dahlia, food plant of <i>Diabrotica 12-punctata</i>	59	3	.....
Daisy, ox-eye, food plant of <i>Macrodactylus subspinosus</i>	11, rev. 80	4 5	.....
Dandelion, food plant of <i>Aphis gossypii</i>	51, rev. 96	2 1	.....
"Däne," colloquial name for <i>Blattella germanica</i>	80	5	.....
<i>Daremma catalpæ</i> , same as <i>Ceratonia catalpæ</i>	87	8	.....
<i>Dasyneura leguminicola</i> . (See Clover-flower midge.).....	59	4	.....
Datura, food plant of <i>Aphis gossypii</i>	37, rev. 2	2	.....
probable food plant of <i>Diabrotica 12-punctata</i>	72	3	.....
<i>Davallia Mooreana</i> , food plant of <i>Chionaspis</i> sp.....	75, rev. 2	2	.....
<i>Deinocerites cancer</i> , distinctive characters of larva.....	24, rev. 61	1 9	.....
Delaware, requirements relative to shipment of nursery stock.....	61	9	.....
<i>Dendroctonus frontalis</i> , destructive to pine and spruce.....	61	9	.....
sp., injury to <i>Pinus murrayana</i>	24, rev. 92	7 1-3	1
<i>ponderosa</i>	92	3	.....
Dendrolene against two-lined chestnut-borer.....	11, rev. 21, rev. 2	4 2	.....
<i>Dermanyssus gallinæ</i> , general account.....	59	1, 2-5	1-2
remedies.....	59	5	.....
<i>longicornis</i> , general account.....	59	1, 6-8	3
remedies.....	59	8	.....
<i>soror</i> , pest in Pacific States.....	59	3	.....
<i>vittata</i> , carrier of fungous diseases of plants.....	59	7	.....
circular.....	31, rev. 2	1-8	1-2
enemy of cucurbits.....	39, rev. 2	1	.....
remedies.....	31, rev. 2	4-8	.....
<i>Diaspis pentagona</i> , lime, sulphur, and salt wash as remedy.....	52, ed. 2	2	.....

	Circular No.	Page.	Figure.
<i>Eulecanium nigrofasciatum</i> , circular.....	88	1-4	1-3
remedies.....	88	3-4	
<i>persicæ</i> , confounded with <i>Eulecanium nigrofasciatum</i>	88	2	
<i>prunastri</i>	88	3	
<i>Eunotus lividus</i> , parasite of <i>Pulvinaria innumerabilis</i>	64	4	
<i>Eupelmus allynii</i> , parasite of <i>Isosoma tritici</i>	66, rev.	4	
<i>Mayetiola destructor</i>	70	12	12-13
<i>reduvii</i> , parasite of <i>Anasa tristis</i>	39, rev. 2	4	
spp., parasites of <i>Scolytus rugulosus</i>	29, rev.	6	
<i>Eupeodes volucris</i> , enemy of <i>Aphis gossypii</i>	80	6	
<i>Euphorocera claripennis</i> , parasite of <i>Ceratonia catalpæ</i>	96	5	2
<i>Euproctis chrysorrhæa</i> , character, conditions in New England, July, 1904.....	58	10-12	
control by collecting and burning winter webs.....	58	11, 12	
<i>Eurytoma bicolor</i> , parasite of <i>Scolytus rugulosus</i>	29, rev.	6	
<i>crassineum</i> , parasite of <i>Scolytus rugulosus</i>	29, rev.	6	
<i>Euschistus variolarius</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	
<i>Eutelus flavipes</i> , parasite of <i>Cheilostia alaskensis</i>	61	7-8	
<i>Euthrips nicotianæ</i> , circular.....	68	1-5	1-2
remedies.....	68	2-5	
<i>tritici</i> , the wheat thrips.....	68	1	
<i>Evania appendigaster</i> , host of <i>Entedon hagenowi</i>	51, rev.	11	
parasite of cockroaches.....	51, rev.	11	
Excrement (see also Manure). human, breeding place of <i>Musca domestica</i>	71, rev.	3	
<i>Exochomus contristatus</i> , enemy of <i>Aphis gossypii</i>	80	6	
<i>Exorista vulgaris</i> , parasite of <i>Pontia rapæ</i>	60	6	
F.			
Fall destruction of cotton stalks against boll weevil.....	14	7-8	
	18	7-8	
	27	6-7	
	33	4-5	
	56		
treatment against American and European foul brood.....	95, rev.		
Feathers, food of <i>Attagenus piceus</i>	79	4	
<i>Tineola biselliella</i>	36, rev.	4	
<i>pellionella</i>	36, rev.	3, 4	
Felting, food of <i>Trichophaga tapetzella</i>	36, rev.	5	
Ferns, fumigation with hydrocyanic-acid gas.....	37, rev. 2	2	
Fertilizers (see also Manure). against Hessian fly.....	12	3	
joint-worm.....	66, rev.	5	
commercial, against corn root-aphis.....	86	12	
mineral, against seed-corn maggot.....	63, ed. 2	3	
organic, inducing root-maggot infestation.....	63, ed. 2	3	
<i>Ficus elastica</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
Fir, Alpine, host tree of bark maggot (probably <i>Cheilostia</i> sp.). bark maggot, lowland. (See <i>Cheilostia hoodianus</i> .) grand. (See Fir, lowland.) lowland, host tree of <i>Cheilostia hoodianus</i>	61	9, 10	
<i>Hylesinus</i> n. sp., and <i>Hylesinus granulatus</i>	61	8-9, 10	
white. (See Fir, lowland.)		9	
Fire. (See Burning.) "Fire-brat," colloquial name for <i>Lepisma domestica</i>	49	3	
Fireplaces, infestation by <i>Lepisma domestica</i>	49	3	
Fish bait, larvæ of <i>Ceratonia catalpæ</i> used therefor.....	96	4	
dried, food of cockroaches.....	51, rev.	2	
oil against two-lined chestnut borer.....	24, rev.	7	
soap. (See Soap, fish-oil, and Soap, whale-oil.) Flea, cat and dog. (See <i>Pulex serraticeps</i> .) human. (See <i>Pulex irritans</i> .)			
Fleas, general account.....	13	3-4	
hydrocyanic-acid gas as remedy.....	46, rev.	1, 2	
remedies.....	13	4	
Flies feeding on honeydew from aphides.....	80	1	
house, as carriers of disease.....	35	8	
circulars.....	71, rev.	3	
hydrocyanic-acid gas as remedy.....	35	1-8	1-6
remedies.....	71, rev.	1-10	1-9
species occurring in houses.....	46, rev.	2	
remedies.....	35	5-8	
species occurring in houses.....	71, rev.	5-9	
Flooding against eggs and young of grasshoppers.....	35	1-3	
Floors, destruction by white ants.....	71, rev.	1-6	
Florida, requirements relative to shipment of nursery stock.....	84	8	
	50, rev.	1, 5	
	75, rev. 2	2	

	Circular No.	Page.	Figure.
Flour and sulphur against cotton red spider.....	65	4	-----
Fly, bluebottle. (See <i>Calliphora erythrocephala</i> and <i>Lucilia caesar</i> .)			
cluster. (See <i>Pollenia rudis</i> .)			
fruit. (See <i>Drosophila ampelophila</i> .)			
green-bottle. (See <i>Lucilia caesar</i> .)			
Hessian. (See <i>Cecidomyia destructor</i> and <i>Mayetiola destructor</i> .)			
house. (See <i>Musca domestica</i> .)			
meat. (See <i>Calliphora erythrocephala</i> .)			
paper, sticky, against house fly.....	35	5	-----
small bluebottle. (See <i>Phormia terranova</i> .)	71, rev.	5	-----
house. (See <i>Homalomyia canicularis</i> .)			
stable. (See <i>Cyrtoneura stabulans</i> , <i>Muscina stabulans</i> , and <i>Stomoxys calcitrans</i> .)			
typhoid. (See <i>Musca domestica</i> .)			
window. (See <i>Scenopinus fenestralis</i> .)			
Food, infestation by cockroaches.....	51, rev.	4-5	-----
house ants.....	34, rev.	1	-----
<i>Lepisma saccharina</i>	49	1	-----
Forage plants, food of <i>Bryobia pratensis</i>	19, ed. 2	1	-----
Forestalling outbreaks of grasshoppers.....	84	10	-----
Forest trees, food plants of <i>Macroductylus subspinosus</i>	11, rev.	2	-----
injury by periodical cicada.....	30	1	-----
Formalin against powder-post beetles.....	55	4	-----
<i>Formica fusca</i> , enemy of <i>Anthonomus signatus</i>	21, rev.	4	-----
Foul brood, American, cause, circular.....	94	1-4	-----
description.....	79	1-2	-----
not the foul brood of Cheshire and Cheyne.....	94	1	-----
treatment.....	79	3-4	-----
European, description.....	79	2	-----
treatment.....	79	3-4	-----
of Cheshire and Cheyne, not American foul brood.....	94	1	-----
Fowls (see also Poultry and Chicken).			
diseases induced by lice.....	92	5	-----
enemies of boll weevil.....	27	5-6	-----
grasshoppers.....	84	4	-----
<i>Leptinotarsa decemlineata</i>	87	12	-----
Foxtail, marsh. (See <i>Alopecurus geniculatus</i> .)			
yellow. (See <i>Ixophorus glaucus</i> .)			
France, laws relative to importation of American plants, trees, and fruits.....	41	2	-----
"Franzosen," colloquial name for <i>Blattella germanica</i>	51, rev.	2	-----
Frog, tree, enemy of cockroaches.....	51, rev.	11	-----
<i>Frontina frenchii</i> , parasite of <i>Ceratonia catalpa</i>	96	5	-----
<i>Malacosoma americana</i>	98	6	-----
Frost. (See Temperature and Weather.)			
Fruit flies, quarantine regulations of New England against intro- duction.....	41	4	-----
fly. (See <i>Drosophila ampelophila</i> .)			
trees, food plants of <i>Bryobia pratensis</i>	19, ed. 2	1, 2, 3, 4	-----
injury by buffalo tree-hopper.....	23	1-3	-----
protection against periodical cicada.....	22	1	-----
.....	22	1	-----
.....	30	1	-----
young, injury by periodical cicada.....	44	1-2	-----
.....	74	5	-----
.....	89	4	-----
Fruits, food of cockroaches.....	51, rev.	3	-----
garden, food plants of <i>Macroductylus subspinosus</i>	11, rev.	2	-----
injury by <i>Leptocoris trivittatus</i>	28	1, 2	-----
Fuchsia, food plant of <i>Aleyrodes vaporariorum</i>	57	2	-----
fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	-----
<i>Fumago salicina</i> , fungus following work of <i>Psylla pyricola</i>	7	2	-----
Fumigation. (See Carbon bisulphid, Hydrocyanic-acid gas, and under Tobacco.)			
Fungi, food of <i>Diabrotica longicornis</i>	59	7	-----
Fungous disease, believed to have caused disappearance of <i>Dendroc- tonus frontalis</i>	24, rev.	1	-----
of grasshoppers.....	84	5-7	6-7
<i>Macrosiphum pisi</i>	43, ed. 2	6	-----
<i>Musca domestica</i> . (See <i>Empusa muscz.</i>)			
<i>Phytonomus punctatus</i>	69	2	-----
plants, carriage by <i>Diabrotica longicornis</i>	59	7	-----
striped cucumber beetle.....	59	7	-----
<i>Pollenia rudis</i>	71, rev.	2	-----
Fungus, smoky. (See <i>Fumago salicina</i> .)			
Fur, food of <i>Tinea pellionella</i>	36, rev.	3	-----
<i>Tinea biselliella</i>	36, rev.	4	-----
<i>Trichophaga tapetzella</i>	36, rev.	5	-----
moths. (See Moths, clothes.)			
Furniture, destruction by <i>Termites flucipes</i>	50, rev.	4, 5	-----
plush-covered, reported injury by <i>Lepisma saccharina</i>	49	2	-----
protection from injury by white ants.....	50, rev.	8	-----

	Circular No.	Page.	Figure.
G.			
<i>Galeruca xanthomelæna</i> . (See Elm leaf-beetle.)			
<i>Galerucella luteola</i> . (See Elm leaf-beetle.)			
Garbage, breeding place of <i>Musca domestica</i>	35	5	
Gas lime against cabbage maggot.	71, rev.	3	
root form of woolly aphid	63, ed. 2	5	
impracticable against house flies	20, rev.	4	
tar against peach-tree borer.	35	6	
treatment against San Jose scale.	71, rev.	4	
Gasoline against powder-post beetles.	54	8-9	
<i>Geophilus</i> spp., mistaken for <i>Mermis albicans</i>	55	4	
Georgia, requirements relative to shipment of nursery stock.	62, rev.	5	
Geranium, food plant of <i>Aleyrodes vaporariorum</i>	75, rev. 2	2-3	
<i>Termes flavipes</i>	57	2	
Germany, laws relative to importation of American plants, trees, and fruits	50	6	
Giant whips. (See <i>Spirochæta apis</i> .)	41	2-3	
Gipsy moth. (See <i>Porthetria dispar</i> .)			
GIRAULT, A. A., JOHNSON, FRED, and, circular, "The Plum Curculio (<i>Conotrachelus nenuphar</i> Herbst)".	73	1-10	1-5
Girdling against fruit-tree bark-beetle	29, rev.	7	
at certain times to prevent pinhole injury in cypress	82	3	
Goldenrod flowers, frequented by adults of <i>Cyllene robinizæ</i>	83	2	
food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>longicornis</i>	59	7	
<i>vittata</i>	31, rev. 2	2	
<i>Gonicotes abdominalis</i> , parasite of chickens.	92	7	6
<i>Goniodes dissimilis</i> , parasite of chickens.	92	7	5
"Gooseberry bugs," colloquial name for chiggers.	77	4	
food plant of <i>Pulvinaria innumerabilis</i>	64	2	
Gourd as trap plant against striped cucumber beetle	31, rev. 2	6	
food plant of <i>Melittia satyriniformis</i>	38, rev. 2	2	
<i>Grabhamia discolor</i> , distinctive characters of larva	72	3	
<i>jamaicensis</i> , distinctive characters of larva	72	3	
Grain aphid, European. (See <i>Siphocoryne avenæ</i> .)			
spring. (See <i>Toxoptera graminum</i> .)			
moth, Angoumois. (See <i>Sitotroga cerealella</i> .)			
weevils, hydrocyanic-acid gas as remedy	46, rev.	2	
Grains, food plants of <i>Camnula pellucida</i>	84	1	
small, food plants of <i>Leucania unipuncta</i>	4	1	
Granaries, fumigation with hydrocyanic-acid gas.	46, rev.	2	
Granary beetles, hydrocyanic-acid gas as remedy	46, rev.	2	
Grape, food plant of <i>Dactylopius adonidum</i>	37, rev. 2	4	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Macrodactylus subspinosus</i>	11, rev.	1-2	
<i>Pulvinaria innumerabilis</i>	64	2	
Phylloxera, resin washes as insecticide.	1	5	
Grapes under glass, fumigation with hydrocyanic-acid gas.	37, rev.	4	
Grass, beard. (See <i>Polypogon monspeliensis</i> .)			
blue, food plant of <i>Leucania unipuncta</i>	4	1	
stem, food plant of <i>Bryobia pratensis</i>	19, ed. 2	2	
couch, food plant of <i>Toxoptera graminum</i>	85	4	
foxtail, food plant of <i>Aphis maidi-radici</i>	86	6	
gama. (See <i>Tripsacum dactyloides</i> .)			
orchard. (See <i>Dactylis glomerata</i> .)			
sesame. (See <i>Tripsacum dactyloides</i> .)			
squirrel-tail. (See <i>Hordeum jubatum</i> .)			
Grasses, food of <i>Termes flavipes</i>	50, rev.	6	
plants of <i>Bryobia pratensis</i>	19	2, 3, 4	
<i>Camnula pellucida</i>	84	1	
<i>Leucania unipuncta</i>	4	1	
<i>Macrodactylus subspinosus</i>	11, rev.	2	
<i>Mayetiola destructor</i> or related species	70	7	
Grasshopper, differential. (See <i>Melanoplus differentialis</i> .)			
pellucid. (See <i>Camnula pellucida</i> .)			
problem and alfalfa culture, circular	84	1-10	1-8
Rocky Mountain. (See <i>Melanoplus spretus</i> .)			
two-striped. (See <i>Melanoplus bivittatus</i> .)			
yellow-winged. (See <i>Camnula pellucida</i> .)			
Grasshoppers, remedies	84	6-10	8
Grazing against boll weevil.	56	4	
"Green arsenoid" against plum curculio.	95, rev.	6	
Green-bottle fly. (See <i>Lucilia cæsar</i> .)	73	9	
"Green bug," colloquial name for <i>Toxoptera graminum</i>	85	1	
Greenhouse white fly. (See <i>Aleyrodes vaporariorum</i> .)	93, rev.	1	
Greenhouses and cold frames, fumigation with hydrocyanic-acid gas, circular	37, rev. 2	1-11	1-3
infestation by <i>Aleyrodes vaporariorum</i>	57	1-5	

	Circular No.	Page.	Figure.
Greenhouses, infestation by <i>Diabrotica vittata</i>	31, rev. 2	2	.....
<i>Leptocoris trivittatus</i>	28	3	.....
<i>Termes flavipes</i>	50, rev.	6	.....
Grosbeak, rose-breasted, enemy of <i>Leptinotarsa decemlineata</i>	87	11	.....
Ground beetle, fiery. (See <i>Calosoma calidum</i> .)			
slender seed-corn. (See <i>Clivina impressifrons</i> .)			
beetles, enemies of <i>Leucania unipuncta</i>	4	4, 5	.....
ivy. (See <i>Nepeta glechoma</i> .)			
Groundsel. (See <i>Senecio</i> .)			
Grouse, ruffed, enemy of <i>Leptinotarsa decemlineata</i>	87	12	.....
"Grubby cattle," meaning of term.....	25	1	.....
"Grub," colloquial name for <i>Hypoderma lineata</i>	25	1	.....
Grubs, white, kerosene emulsion as insecticide.....	1	5	.....
Gum, injury by <i>Platypus compositus</i>	82	3	.....
Gunpowder against cockroaches.....	51, rev.	13	.....
Gypsum and kerosene against squash bug.....	39, rev. 2	5	.....
turpentine against squash bug.....	39, rev. 2	5	.....
Gypsy moth. (See <i>Porthetria dispar</i> .)			
H.			
<i>Habrocytus thyridopterigis</i> , hyperparasite of <i>Thyridopteryx ephemeraformis</i>	97	8	11
probable parasite of <i>Allocota thyridopterigis</i>	97	8	.....
Hackberry, food plant of <i>Pulvinaria innumerabilis</i>	64	2	.....
<i>Hadronotus anasar</i> , parasite of <i>Anasa tristis</i>	39, rev. 2	4	.....
Hair, food of <i>Tineola biselliella</i>	36	4	.....
worm, cabbage (see also <i>Mermis albicans</i>).			
hosts.....	62, rev.	3	.....
positively not poisonous.....	62, rev.	5-6	.....
Hand destruction against house centipede.....	48	4	.....
method against plum curculio.....	73	10	.....
methods against seed-corn maggot.....	63, ed. 2	2	.....
squash-vine borer.....	38, rev. 2	5-6	.....
picking against apple-tree tent caterpillar.....	98	7	.....
bagworm.....	97	8-9	.....
cabbage maggot.....	63, ed. 2	4	.....
catalpa sphinx.....	96	6	.....
imported cabbage worm.....	60	8	.....
periodical cicada.....	89	4	.....
rose-chaffer.....	11, rev.	3-4	.....
squash bug.....	39, rev. 2	4	.....
<i>Harpalus caliginosus</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	10	.....
Harvest mites or "chiggers," circular.....	77	1-6	1-3
remedies.....	77	5-6	.....
Hawaii, requirements relative to shipment of nursery stock.....	75, rev. 2	3	.....
Haw, food plant of <i>Conotrachelus nenuphar</i>	73	4	.....
Hawk, sparrow, enemy of grasshoppers.....	84	4	.....
Swainson, enemy of grasshoppers.....	84	4	.....
Hawthorn, food plant of <i>Pulvinaria innumerabilis</i>	64	2	.....
<i>Scolytus rugulosus</i>	29, rev.	2	.....
Hazel, food plant of <i>Balaninus obtusus</i>	99	15	.....
Hazelnut weevil. (See <i>Balaninus obtusus</i> .)			
Heat. (See Temperature and Weather.)			
Heating against chestnut weevils.....	99	11	.....
powder-post beetles.....	55	4	.....
"Heel fly," colloquial name for <i>Hypoderma lineata</i>	25	1	.....
<i>Heliothis obsoleta</i> , Paris green as remedy.....	68	3-4	.....
Heliotrope, food plant of <i>Aleyrodes vaporariorum</i>	57	2	.....
Hellebore against imported cabbage worm.....	60	8	.....
pear slug.....	26	7	.....
ineffective against rose-chaffer.....	11, rev.	3	.....
<i>Hemerobius gossypii</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>Hemerocampa leucostigma</i> . (See Tussock moth, white-marked.)			
<i>Hemiteles mesochoridis</i> , parasite of <i>Apanites congregatus</i>	96	5	.....
<i>scolyti</i> , parasite of <i>Scolytus rugulosus</i>	29, rev.	6	.....
<i>thyridopterigis</i> — <i>Allocota thyridopterigis</i>	97	6	.....
Hemlock bark beetle. (See <i>Hylesinus</i> n. sp.)			
maggot. (See <i>Cheilosia alaskensis</i> .)			
Western, "Black check" injury, circular.....	61	1-10	1-5
host tree of <i>Cheilosia alaskensis</i>	61	2-8	1, 3-5
<i>Hylesinus</i> n. sp.....	61	2, 3	3
Henbane. (See <i>Hyoscyamus</i> .)			
Hen louse. (See <i>Menopon pallidum</i> .)			
manure, ineffective against strawberry weevil.....	21, rev.	7	.....
Herbariums, reported infestation by <i>Tineola biselliella</i>	36, rev.	4	.....
Hessian fly. (See <i>Cecidomyia destructor</i> and <i>Mayetiola destructor</i> .)			
<i>Heteropus ventricosus</i> . (See <i>Pediculoides ventricosus</i> .)			
<i>Hydenia unica</i> , parasite of <i>Scolytus rugulosus</i>	29, rev.	6	.....
Hibiscus. (See Mallot and Mallows.)			
Hickory, food plant of <i>Chrysobothris femorata</i>	32, rev. 3	9	.....
<i>Hippodamia convergens</i> , enemy of <i>Aphis gossypii</i>	80	6, 7	3, a, b, c
<i>Leptinotarsa decemlineata</i>	87	10	4

	Circular No.	Page.	Figure.
<i>Hippodamia convergens</i> , enemy of <i>Macrospilum pisi</i>	43, ed. 2	5	
<i>Toxoptera graminum</i>	85	5	3
<i>glacialis</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	10	
<i>Macrospilum pisi</i>	43	5	
<i>parenthesis</i> , enemy of <i>Toxoptera graminum</i>	85	5	
<i>13-punctata</i> , enemy of <i>Aphis gossypii</i>	80	6	
<i>Leptinotarsa decemlineata</i>	87	10	
<i>Macrospilum pisi</i>	43, ed. 2	5	
<i>Hoffmannia refulgens</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
Hogs, enemies of nut weevils.....	99	12, 14	
<i>Holopelte microgastri</i> . (See <i>Horismenus microgastri</i> .)			
<i>Homalodisca coagulata</i> , glassy-winged sharpshooter, mistaken for boll weevil.....	6	2, 3	3
<i>Homalomyia brevis</i> in houses.....	27	5	
<i>canicularis</i> in houses.....	71, rev.	2, 4	6
<i>Homoporus chalcidiphagus</i> , parasite of <i>Isosoma tritici</i>	35	2	
Honeydew from corn root-aphis.....	71, rev.	2	
HOOKER, W. A., circular, "The Tobacco Thrips and Remedies to Prevent 'White Veins' in Wrapper Tobacco (<i>Euthrips nicotianæ</i> Hinds)".....	66, rev.	4	
Hop, food plant of <i>Aphis gossypii</i>	86	8	
<i>Phorodon humuli</i>	68	1-5	1-2
HOPKINS, A. D., circular, "Pinhole Injury to Girdled Cypress in the South Atlantic and Gulf States".....	80	5	
"Powder-Post Injury to Seasoned Wood Products".....	2	3-4	
"The Locust Borer and Methods for its Control".....	82	1-4	1
"The White-Pine Weevil".....	55	1-5	1
Hopperdozer against grasshoppers.....	83	1-8	1-4
yellow-winged locust.....	90	1-8	1-6
<i>Hordeum cespitosum</i> , food plant of <i>Toxoptera graminum</i>	84	8-9	8
<i>jubatum</i> , food plant of <i>Toxoptera graminum</i>	53	2-3	
<i>murinum</i> , food plant of <i>Toxoptera graminum</i>	93, rev.	5	
<i>pusillum</i> , food plant of <i>Toxoptera graminum</i>	93, rev.	5	
<i>Horismenus microgastri</i> , parasite of <i>Microplitis (A. panteles) catalpæ</i>	85	4	
Horse-chestnut, food plant of <i>Chrysobothris femorata</i>	93, rev.	5	
Horse droppings, salt, and Paris green against grasshoppers.....	96	5	
host of <i>Dermomyssus gallinæ</i>	32, rev. 3	9	
mint. (See <i>Monarda fistulosa</i> .)	84	9	
nettle, food plant of <i>Diabrotica 12-punctata</i>	92	2	
Horseradish, food plant of <i>Pontia rapæ</i>	59	3	
House centipede. (See <i>Scutigera forceps</i> .)	60	4	
cleaning against carpet beetle.....	5, rev.	3-4	
clothes moths.....	36, rev.	5-6	
fleas.....	13	4	
fly. (See <i>Musca domestica</i> .)			
small. (See <i>Homalomyia canicularis</i> .)			
Houses, infestation by <i>Bryobia pratensis</i>	19, ed. 2	1, 4	
<i>Cimex lectularius</i>	47, rev.	1-8	
sp., from swallow.....	47, rev.	3	
cockroaches.....	51, rev.	1-14	
flies, circulars.....	35	1-8	1-6
<i>Lepisma saccharina</i>	71, rev.	1-10	1-9
<i>Leptocoris trivittatus</i>	49	1-4	
<i>Monomorium minutum</i>	28	1, 3	
<i>pharaonis</i>	34, rev.	1, 3	
<i>Scutigera forceps</i> , circular.....	34, rev.	1, 2	
<i>Tetramorium caspium</i>	48	1-4	1-2
<i>Termes flavipes</i>	34, rev.	1, 3-4	
.....	50, rev.	1	
HOWARD, L. O., circular, "An Important Enemy to Fruit Trees. The San Jose Scale; its Appearance in the Eastern United States; Measures to be Taken to Prevent its Spread and to Destroy it".....	3	1-10	1-5
"General Work against Insects which De- foliate Shade Trees in Cities and Towns".....	15	1-4	
"House Flies (<i>Musca domestica</i> et al.)".....	35	1-8	1-6
"How to Distinguish the Different Mos- quitoes of North America".....	71, rev.	1-10	1-9
"Hydrocyanic-acid Gas against House- hold Insects".....	40	1-7	1-3
"Mosquitoes and Fleas".....	46, rev.	1-7	
"Regulations of Foreign Governments Regarding Importation of American Plants, Trees, and Fruits".....	13	1-4	
"Remedial Work against the Mexican Cotton-boll Weevil".....	41	1-4	
"The Army Worm (<i>Leucania unipuncta</i> Haw.)".....	33	1-6	
"The Box-elder Plant-bug (<i>Leptocoris</i> <i>trivittatus</i> Say)".....	4	1-5	1-3
.....	28	1-3	1

	Circular No.	Page.	Figure.
HOWARD, L. O., circular "The Carpet Beetle or 'Buffalo Moth' (<i>Anthrenus scrophulariae</i> L.)".....	5, rev.	1-4	1
"The Harlequin Cabbage Bug or Calico Back (<i>Murgantia histrionica</i> Hahn)".....	10	1-2	[1]
"The Larger Corn Stalk-borer (<i>Diatraea saccharalis</i> Fab.)".....	16	1-3	1-3
"The Mexican Cotton-boll Weevil (<i>Anthonomus grandis</i> Boh.)".....	6	1-5	1-3
"The Mexican Cotton-boll Weevil in 1897".....	14	1-8	1-5
"The Mexican Cotton-boll Weevil in 1897".....	18	1-8	1-5
and CHITTENDEN, F. H., circular, "The Bagworm (<i>Thyridopteryx ephemeraeformis</i> Haw.)".....	27	1-7	.....
"The Catalpa Sphinx (<i>Ceratomia catalpae</i> Bdv.)".....	97	1-10	1-11
HUNTER, W. D., circular, "Note on the occurrence of the North American fever tick on sheep".....	96	1-7	1-2
"The Most Important Step in the Control of the Boll Weevil".....	91	1-3	.....
"The Most Important Step in the Cultural System of Controlling the Boll Weevil".....	95, rev.	1-8	.....
"The Periodical Cicada in 1902".....	56	1-7	.....
Hydrangea, food plant of <i>Aphis gossypii</i>	44	1-4	1-2
Hydrocyanic-acid gas against bedbugs.....	80	5	.....
book-lice.....	47, rev.	6	.....
carpet beetle.....	46, rev.	1	.....
cockroaches.....	5, rev.	4	.....
greenhouse white fly.....	51, rev.	12	.....
household insects, circular.....	57	5-8	.....
mealy bugs, etc.....	46, rev.	1-7	.....
melon aphid.....	37, rev. 2	4	.....
plant-lice.....	80	9	.....
San Jose scale in nursery stock.....	46, rev.	1	.....
scale (<i>Chionaspis</i> sp.).....	42, ed. 5	7	.....
insects on citrus trees.....	37, rev. 2	2	.....
pests in greenhouses and cold frames.....	46, rev.	1	.....
stored-product insects.....	37, rev.	1	.....
thrips.....	48, rev.	2	.....
white ants.....	46, rev.	1	.....
fly.....	50, rev.	8	.....
tailed mealy bug.....	46, rev.	1	.....
woolly aphid in nursery stock.....	37, rev. 2	3	.....
fumigation of greenhouses and cold frames.....	20	6	.....
nursery stock against San Jose scale.....	37, rev. 2	1-11	1-3
Hylastinus obscurus, circular.....	42, ed. 5	7	.....
remedies.....	67	1-5	1-4
Hylesinus granulatus, injury to lowland fir.....	67	4-5	.....
n. sp., injury to lowland fir.....	61	9	.....
western hemlock.....	61	9	.....
Hymenopterous parasites of house-fly larvae.....	61	2, 3, 10	3
Hyoscyamus, food plant of <i>Leptinotarsa decemlineata</i>	35	8	.....
<i>Hyperacmus tinez</i> , parasite of <i>Tinea pellionella</i>	87	8	.....
<i>Hyperaspis binotata</i> , enemy of <i>Pulexinaria innumerabilis</i>	36, rev.	4	.....
signata, enemy of <i>Pulexinaria innumerabilis</i>	64	3, 5	4
undulata, enemy of <i>Toxoptera graminum</i>	64	3	.....
<i>Hyphantria cunea</i> . (See Webworm, fall.).....	93, rev.	6	.....
<i>Hypoderma bovis</i> , adult, puparium.....	25	2, 8	3, 9
lineata, circular.....	25	1-10	1-10
remedies.....	25	8-10	.....
<i>Hypopteromalus tabacum</i> , parasite of <i>Microplitis (Apanteles) catalpae</i>	96	5	.....
I.			
Ichneumon flies, enemies of canker-worms.....	9	2	.....
Idaho, requirements relative to shipment of nursery stock.....	75, rev. 2	3	.....
Illinois, requirements relative to shipment of nursery stock.....	75, rev. 2	3	.....
Impatiens, food plant of <i>Diabrotica 12-punctata</i>	59	3	.....
Index to Circulars 1 to 100 of the Bureau of Entomology.....	100	i-ii, 1-49	.....
Indiana, requirements relative to shipment of nursery stock.....	75, rev. 2	3	.....
Insecticide apparatus (see also Mechanical methods).			
against boll weevil.....	18	7	.....
.....	27	5	.....
.....	33	5-6	.....
cockroaches.....	51, rev.	13-14	.....
Colorado potato beetle.....	87	12	.....
cotton red spider.....	65	4	.....

	Circular No.	Page.	Figure.
Insecticide apparatus against elm leaf-beetle.....	8	4	
grasshoppers.....	84	8-9	8
hop plant-louse.....	2	6-7	
melon aphids.....	80	13-15	5-6
pea aphids.....	43, ed. 2	7-9	5-6
plum curculio.....	73	6-8	4-5
root maggots.....	63, ed. 2	5	2
San Jose scale.....	3	8	
shade-tree insects.....	15	2-3	
tobacco thrips.....	68	4	
yellow-winged locust.....	53	2-3	
for fumigating greenhouse plants.....	37, rev. 2	9-10	
Insecticides, caution necessary in use.....	1	6-7	
condensed information concerning some of those most important, circular.....	1	1-7	
ineffective against boll weevil.....	14	5	
	18	6	
Insect lime. (See Raupenleim and Dendrolene.)			
Insects defoliating shade trees, control in cities and towns, circular..	15	1-4	
dried, food of <i>Tineola biselliella</i>	36	4	
subterranean, insecticides.....	1	5	
Iodine as remedy for "chiggers".....	77	6	
Iowa, requirements relative to shipment of nursery stock.....	75, rev. 2	3	
<i>Isocratus vulgaris</i> , parasite of <i>Macrosiphum pisi</i>	43, ed. 2	5	
<i>Isosoma tritici</i> , circular.....	66, rev.	1-7	1-6
remedies.....	66, rev.	5-7	
Itch mite of fowls. (See <i>Cnemidocoptes mutans</i> .)			
Ivy, ground. (See <i>Nepeta glechoma</i> .)			
poison, food plant of <i>Pulsinaria innumerabilis</i>	64	2	
<i>Izophorus glaucus</i> , food plant of <i>Toxoptera graminum</i>	93, rev.	6	
(<i>Setaria</i>), possible food plant of <i>Toxoptera graminum</i>	85	4	
J			
<i>Jacaranda ovalifolia</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
Jamestown weed. (See <i>Datura</i> .)			
<i>Janthinosoma posticata</i>	72	3	
<i>sagi</i> , distinctive characters of larva.....	72	3	
<i>varipes</i> , distinctive characters of larva.....	72	3	
Jarring against boll weevil.....	18	7	
Colorado potato beetle.....	87	12	
hazelnut weevil.....	99	15	
plum curculio.....	73	6, 7-9	4-5
rose-chafer.....	11	4	
spring canker-worm.....	9	2	
generally impracticable against chestnut weevils.....	99	9	
"Jelly," meaning of term as applied to beef and hides.....	25	1	
"Jigger," colloquial name for harvest mite.....	77	1	
Jimson weed. (See <i>Datura</i> .)			
JOHNSON, FRED, and GRAULT, A. A., circular, "The Plum Curculio (<i>Conotrachelus nenuphar</i> Herbst)".....	73	1-10	1-5
Joint-worm. (See <i>Isosoma tritici</i> .)			
Juneberry, food plant of <i>Diabrotica vittata</i>	31, rev. 2	2	
<i>Saperda candida</i>	32, rev. 3	3	
<i>cretata</i>	32, rev. 3	8	
<i>Scolytus rugulosus</i>	29, rev.	2	
K			
Kainit against rose-chafer.....	11	4	
seed-corn maggot.....	63, ed. 2	3	
decoction ineffective against rose-chafer.....	11, rev.	3	
Kakerlach, Dutch name for <i>Blatta orientalis</i>	51, rev.	9	
Kale as trap crop for cabbage aphids.....	80	15-16	
melon aphids.....	80	15	
food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Murgantia histrionica</i>	10	2	
Kansas, requirements relative to shipment of nursery stock.....	75, rev. 2	3	
Kentucky, requirements relative to shipment of nursery stock.....	75, rev. 2	3-4	
Kerosene against bedbug.....	47, rev.	7	
box-elder plant-bug.....	23	3	
carpet beetle.....	5, rev.	3	
clover mite.....	19, ed. 2	4	
fruit-tree bark-beetle.....	29, rev.	8	
grasshoppers.....	84	8	
harlequin cabbage bug.....	10	2	
house flies.....	35,	6, 7	
little red ant.....	71, rev.	6-7	
locust borer.....	34, rev.	2	
mosquitoes in houses.....	83	6	
mosquito-stages in pools.....	13	2	
mosquito-stages in pools.....	13	2-3	
ox warble.....	25	9	
powder-post beetles.....	55	4	

	Circular No.	Page.	Figure.
Kerosene against round-headed apple-tree borer.....	32, rev. 3	7	
slender seed-corn ground-beetle.....	78	5	
San Jose scale.....	42, ed. 5	4-5	
strawberry weevil.....	21, rev.	7	
striped cucumber beetle.....	31, rev. 2	7	
two-lined chestnut borer.....	24, rev.	7	
white ants.....	50, rev.	8	
and carbolic acid against common hen louse.....	92	6	
gypsum against squash bug.....	39, rev. 2	5	
land plaster against squash bug.....	39, rev. 2	5	
naphthaline against common hen louse.....	92	6-7	
plaster ineffective against strawberry weevil.....	21, rev.	7	
sand against corn root-aphis.....	86	12	
seed-corn maggot.....	63, ed. 2	2	
compounds ineffective against rose-chaffer.....	11, rev.	3	
emulsion against apple aphides.....	81	9, 10	
box-elder plant-bug.....	28	3	
buffalo tree-hopper.....	23	4	
chicken mite.....	92	3	
clover mite.....	19, ed. 2	4	
cotton red spider.....	65	5	
cottony maple scale.....	64	5-6	
elm leaf-beetle.....	8, rev.	6	
"green bug".....	93, rev.	7, 19	
harlequin cabbage bug.....	10	2	
hop plant-louse.....	2	5-6	
imported cabbage worm.....	60	7	
locust borer.....	83	5	
melon aphid.....	80	13-14	
pea aphid.....	43, ed. 2	7	
pear-tree Psylla.....	7	7	
rose-chaffer.....	11, rev.	4	
San Jose scale.....	3	6	
squash bugs.....	80	16	
subterranean insects.....	1	5	
terrapiu scale.....	88	4	
tobacco thrips.....	68	3-4, 5	
two-lined chestnut borer.....	24, rev.	7	
woolly aphid.....	20, rev.	4, 5, 6	
and Bordeaux mixture against pear-tree Psylla.....	7	8	
as insecticide.....	1	3	
ineffective against periodical cicada.....	89	4	
only partially successful against strawberry weevil.....	21, rev.	7	
useless against chestnut weevils.....	99	9	
Key to known larvae of the mosquitoes of the United States, circular.....	72	1-6	1
Kiln-drying against chestnut weevils.....	99	11	
L.			
Labels eaten by <i>Lepisma saccharina</i>	49	1, 2	
<i>Labena apicalis</i> , parasite of <i>Chrysobothris femorata</i>	32, rev. 3	11	
gallator, parasite of <i>Chrysobothris femorata</i>	32, rev. 3	11	
Lace-wing flies, enemies of <i>Chlizoncra lanigera</i>	20, rev.	6	
fly, golden-eyed. (See <i>Chrysopa oculata</i> .).....			
Lady-beetles, enemies of spring grain-aphis (<i>Toxoptera graminum</i>).....	93, rev.	3	
Ladybird, twice-stabbed. (See <i>Chilocorus biveinatus</i> .).....			
two-spotted. (See <i>Adalia bipunctata</i> .).....			
<i>Lætilia coccidivora</i> , enemy of <i>Puleinaria innumerabilis</i>	64	4	
Lambsquarters. (See <i>Chenopodium</i> .).....			
Land plaster and kerosene against squash bug.....	39, rev. 2	5	
Lantana, food plant of <i>Aleyrodes vaporariorum</i>	57	2	
<i>Lasius niger</i> var. <i>americanus</i> , attendant on <i>Aphis maidi-radici</i>	86	5-9	
Lavender flowers frequented by butterflies of <i>Pontia rapæ</i>	60	4	
Laws (see also Legislation)......			
against house flies.....	71, rev.	9-10	
relative to importation of American plants, trees, and fruits into other countries.....	41	1-4	
shipment of nursery stock, circular.....	75, rev. 2	1-9	
Leaf beetle, elm. (See Elm leaf-beetle.).....			
rollers of strawberry, arsenicals as remedy.....	21, rev.	8	
Leather, gnawed by cockroaches.....	51, rev.	4	
<i>Lebia atriventris</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	10	
grandis, enemy of <i>Leptinotarsa decemlineata</i>	87	10	5
Legislation (see also Laws)......			
against boll weevil.....	14	7-8	8
Lemon oil and wood alcohol against corn root-aphis.....	86	13	
<i>Lepidoplatus squamiger</i>	72	6	
<i>Lepisma domestica</i> , frequenter of ovens and fireplaces.....	49	1, 2, 3	2
saccharina, circular.....	49	1-4	1-2
remedies.....	49	3-4	
<i>Leptinotarsa decemlineata</i> , circular.....	87	1-15	1-6
remedies.....	87	12-15	
intermedia.....	87	3	

	Circular No.	Page.	Figure.
<i>Leptocoris trivittatus</i> , circular.....	28	1-3	1
remedies.....	28	3	
<i>Leptotrachelus dorsalis</i> , enemy of <i>Isosoma tritici</i>	66, rev.	4	
<i>Leptus americanus</i>	77	2, 4	2
= <i>Trombidium</i>	77	2	
<i>irritans</i> , general account.....	77	2	1
Lettuce, food plant of <i>Aleyrodes vaporariorum</i>	57	2	
<i>Leucania unipuncta</i> , circular.....	4	1-5	1-3
remedies.....	4	3-4	
<i>Leucopis nigricornis</i> , enemy of <i>Aphis gossypii</i>	80	6	
<i>Pulvinaria innumerabilis</i>	64	4	
Lice and mites on poultry, circular.....	92	1-8	1-6
poultry, a sure preventive.....	92	7-8	
" Licked beef," meaning of term.....	25	1	
Lime against "green bug".....	93, rev.	19	
peach-tree borer.....	54	4	
pear slug.....	26	6	
slender seed-corn ground-beetle.....	78	5	
striped cucumber beetle.....	31, rev. 2	7	
woolly aphid.....	20, rev.	4	
ineffective against strawberry weevil.....	21, rev.	7	
air-slaked, against striped cucumber beetle.....	31, rev. 2	7	
impracticable against house flies.....	35	6	
and arsenical against peach-tree borer.....	71, rev.	5-6	
carbolic acid against common hen louse.....	17	4	
glue against peach-tree borer.....	92	6	
Paris green against two-lined chestnut borer.....	17	3	
sulphate of copper ineffective against strawberry weevil..	24, rev.	7	
sulphur against chicken mite.....	21, rev.	7	
common hen louse.....	92	3	
carbolic acid, soap, Paris green, and clay against peach-tree borer.....	92	6	
caterpillar. (See <i>Raupeneim</i> and <i>Dendrolene</i> .)	17	4	
compounds ineffective against rose-chaffer.....	54	4	
milk, with arsenicals against apple-tree tent caterpillar.....	11, rev.	3	
slaked, against spring grain-aphid.....	98	8	
sulphur, and salt wash (see also Lime-sulphur wash). against San Jose scale.....	85	7	
West Indian peach scale.....	3	7	
circular.....	52, ed. 2	1	
sulphur against cotton red spider.....	52, ed. 2	2	
wash (see also Lime, sulphur, and salt wash). against apple aphides.....	52, ed. 2	1-8	
San Jose scale.....	65	4-5	
worthless against terrapin scale.....	81	10	
wash against periodical cicada.....	42, ed. 5	2-4	
<i>Linnerium fugitivum</i> , parasite of <i>Malacosoma americana</i>	88	3	
Linden, food plant of <i>Chrysobothris femorata</i>	89	4	
<i>Pulvinaria innumerabilis</i>	98	5	
Linen, starched, eaten by <i>Lepisma saccharina</i>	32, rev. 3	9	
<i>Liobunum dorsatum</i> , enemy of <i>Leptinotarsa decemlineata</i>	64	2	
<i>Lipeurus variabilis</i> on chicken.....	49	2	
<i>Lixus</i> , resistant to cyanid fumes.....	87	11	
Locust, black, food plant of <i>Bryobia pratensis</i>	92	7	4
host tree of <i>Cyllene robiniae</i>	46, rev.	2	
borer. (See <i>Cyllene robiniae</i> .)	19, ed. 2	2	
breeding and propagating trees resistant to locust borer.....	83	1	
colloquial name for periodical cicada.....	83	7-8	
differential. (See <i>Melanoplus differentialis</i> .)	30	1	
food plant of <i>Pulvinaria innumerabilis</i>	30	1	
pellucid. (See <i>Camnula pellucida</i> .)	64	2	
Rocky Mountain. (See <i>Melanoplus spretus</i> .)	30	1	
seventeen-year, colloquial name for periodical cicada.....	30	1	
two-striped. (See <i>Melanoplus bivittatus</i> .)	30	1	
yellow-winged. (See <i>Camnula pellucida</i> .)	30	1	
<i>Lolium perenne</i> , food plant of <i>Toxoptera graminum</i>	85	4	
London purple against army worm.....	4	3	
boll weevil.....	6	5	
elm leaf-beetle.....	33	2, 3	
strawberry weevil.....	8, rev.	5	
and soap against peach-tree borer.....	21, rev.	6	
as insecticide.....	17	4	
Louisiana, requirements relative to shipment of nursery stock.....	1	5-7	
Louse, destructive green pea. (See <i>Macrosiphum pisti</i> .)	75, rev. 2	4	
duck, not same as hen louse.....	92	5	
goose, not same as hen louse.....	92	5	
hen. (See <i>Menopon pallidum</i> .)	92	5	
pigeon, not same as hen louse.....	92	5	
Lucifuga, name applied to cockroaches by ancients.....	51, rev.	1	

	Circular No.	Page.	Figure.
<i>Lucilia cæsar</i> in houses, habits.....	35	2, 4, 5	4-5
<i>Lyctus planicollis</i>	71, rev.	2-3	5
<i>Lydelta doryphoræ</i> . (See <i>Phorocera doryphoræ</i> .)	55	2	1
Lye-sulphur against cotton red spider.....	65	5	
Lye water against apple aphides.....	81	9	
<i>Lysiphlebus citraphis</i> , parasite of <i>Aphis gossypii</i>	80	6	
<i>cucurbitaphis</i> , parasite of <i>Aphis gossypii</i>	80	6	
<i>gossypii</i> , parasite of <i>Aphis gossypii</i>	80	6	
<i>minutus</i> , parasite of <i>Aphis gossypii</i>	80	6	
<i>tritici</i> , hosts.....	93, rev.	17	
introduction experiments against <i>Toxoptera gra-</i> minum.....	93, rev.	7-14	
parasite of <i>Toxoptera graminum</i>	85	5	
	93, rev.	3-5, 15-18	5-10
M.			
Machines. (See Insecticide apparatus.)			
<i>Macroductylus subspinosus</i> , circular.....	11, rev.	1-4	1
remedies.....	11, rev.	3-4	
<i>Macrosiphum pisi</i> , circular.....	43, ed. 2	1-10	1-7
remedies.....	43, ed. 2	6-10	4-7
<i>rudbeckiæ</i>	93, rev.	17	
Maggot, cabbage (<i>Pegomya brassicæ</i>) (see also Maggot, radish).			
bisulphid of carbon as insecti- cide.....	1	5	
general account.....	63, ed. 2	3-6	
remedies.....	63, ed. 2	4-6	2-5
imported onion (<i>Pegomya capetorum</i>), bisulphid of carbon as insecticide.....	1	5	
general account.....	63, ed. 2	6-7	
remedies.....	63, ed. 2	7	
radish (<i>Pegomya brassicæ</i>) (see also Maggot, cabbage).			
bisulphid of carbon as insecticide.....	1	5	
seed-corn. (See <i>Pegomya fusciceps</i> .)			
Magnolias, food-plants of <i>Macroductylus subspinosus</i>	11, rev.	4	
"Mahogany flat," colloquial name for <i>Cimex lectularius</i>	47, rev.	2	
Maine, requirements relative to shipment of nursery stock.....	75, rev. 2	4	
<i>Malacosoma americana</i> , circular.....	98	1-8	1-4
remedies.....	98	6-8	
<i>fragilis</i> , tent caterpillar of the Rocky Mountain region.....	98	2	
<i>pluvialis</i> , tent caterpillar of the Pacific Northwest.....	98	2	
spp., hosts of <i>Pimpia inquisitor</i>	97	6	
Malaria, carriage by mosquitoes.....	40	1	
Mallow, food plant of <i>Aphis gossypii</i>	80	5	
Mallows, food plants of <i>Thyridopteryx ephemeraeformis</i>	97	4	
Man, eyelashes and bits of toenails eaten off by cockroaches.....	51, rev.	6	
host of <i>Dermanyssus gallinæ</i>	92	2	
harvest mites, or "chiggers".....	77	1-3	
<i>Sarcophylla penetrans</i>	77	1	
reported as host of <i>Leptocoris trivittatus</i>	28	3	
seldom bitten by <i>Scutigera forceps</i>	48	3	
Mantis, Carolina. (See <i>Stagmomantis carolina</i> .)			
Manure (see also Fertilizers and Excrement.)			
against corn root-aphis.....	86	11-12	
"green bug".....	93, rev.	6	
breeding place of <i>Musca domestica</i>	35	5	
hen, ineffective against strawberry weevil.....	71, rev.	3	
treatment to destroy house flies.....	21, rev.	7	
	35	5-8	
	71, rev.	5-9	
Maple, food plant of <i>Chrysobothris femorata</i>	32, rev. 3	9	
<i>Malacosoma americana</i>	98	2	
<i>Pulvinaria acericola</i>	64	2	
<i>innumerabilis</i>	64	2	
<i>Thyridopteryx ephemeraeformis</i>	97	4	
injury by <i>Ceresa bubalus</i>	23	2	
leaf pulvinaria. (See <i>Pulvinaria acericola</i> .)			
scale, cottony. (See <i>Pulvinaria innumerabilis</i> .)			
soft. (See <i>Acer saccharinum</i> .)			
three species, food plants of <i>Eulecanium nigrofasciatum</i>	88	2	
Marantas, fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
<i>Margaropus annulatus</i> . (See <i>Boophilus annulatus</i> .)			
MARLATT, C. L., circular, "A New Nomenclature for the Broods of the Periodical Cicada".....	45	1-8	
"Cockroaches".....	51, rev.	1-14	1-5
"House Ants (<i>Monomorium pharaonis</i> et al.)".....	34, rev.	1-4	1-3
"How to Control the San Jose Scale".....	42, ed. 5	1-7	
"Report on the Gypsy Moth and the Brown-Tail Moth, July, 1904".....	58	1-12	1-2
"The Bedbug (<i>Cimex lectularius</i> L.)".....	47, rev.	1-8	1-3
"The Buffalo Tree-hopper (<i>Ceresa bu-</i> balus Fab.)".....	23	1-4	[1-2]

	Circular No.	Page.	Figure.
MARLATT, C. L., circular, "The Clover Mite (<i>Bryobia pratensis</i> Garman)"	19, ed. 2	1-4	1
"The Hessian Fly (<i>Cecidomyia destructor</i> Say)"	12, rev.	1-4	
"The House Centipede (<i>Scutigera forceps</i> Raf.)"	48	1-4	1-2
"The Imported Elm Leaf-beetle (<i>Galeruca leucolea</i> Müll.)"	8, rev.	1-6	1
"The Lime, Sulphur, and Salt Wash"	52, ed. 2	1-8	
"The Ox Warble (<i>Hypoderma lineata</i> Villers)"	25	1-10	1-10
"The Peach-tree Borer (<i>Sannina exilis</i> Say)"	17	1-4	f
	54	1-4	1
"The Pear Slug (<i>Eriocampoides limacina</i> Retzius)"	26	1-7	1-4
"The Pear-tree Psylla (<i>Psylla pyricola</i> Foerst.)"	7	1-8	1-6
"The Periodical Cicada in 1906 (<i>Tibicen septendecim</i> L.)"	74	1-5	1-3
1907 (<i>Tibicen septendecim</i> L. race <i>tredecim</i> Walsley)"	89	1-4	1-3
"The Silver Fish (<i>Lepisma saccharina</i> Linn.)"	49	1-4	1-2
"The True Clothes Moths (<i>Tinea pellionella</i> et al.)"	36, rev.	1-8	1-3
"The White Ant (<i>Termes flavipes</i> Koll.)"	50, rev.	1-8	1-4
"The Woolly Aphis of the Apple (<i>Schizoneura lanigera</i> Hausmann)"	20, rev.	1-6	1-2
Maryland, requirements relative to shipment of nursery stock	75, rev. 2	4	
Massachusetts, requirements relative to shipment of nursery stock	75, rev. 2	4	
<i>Mayetiola destructor</i> (see also <i>Cecidomyia destructor</i>). circular.....	70	1-16	1-16
remedies.....	70	13-16	
Meadowlarks, enemies of grasshoppers.....	84	4	
Mealy bug. (See <i>Dactylopius adonidum</i>). "white-tailed." (See <i>Orthesia insignis</i> .)			
"Meat fly," colloquial name for <i>Calliphora erythrocephala</i>	35	2	
Mechanical methods (see also Insecticide apparatus). against army worm.....	71, rev.	2	
ox warble.....	4	3, 4	
peach-tree borer.....	25	9	
rose-chaffer.....	17	3, 4	
round-headed apple-tree borer.....	54	3, 5	
two-lined chestnut borer.....	11, rev.	4	
	32, rev. 3	6	
	24, rev.	5-6	
<i>Medicago sativa</i> . (See Alfalfa.)			
Megarhinus, distinctive characters of genus, adults.....	40	4	
<i>hemorrhoidalis</i> , distinctive characters of adult.....	40	7	
<i>portoricensis</i> , distinctive characters of adult.....	40	7	
larva.....	72	1	
<i>rutula</i> , distinctive characters of adult.....	40	7	
table of North American species, adults.....	40	7	
<i>Megilla maculata</i> , enemy of <i>Aphis gossypii</i>	80	6-7	3, d, e.
<i>Leptinotarsa decemlineata</i>	87	10	
<i>Macrosiphum pist.</i>	43, ed. 2	5	2
<i>Toxoptera graminum</i>	85	5	
<i>Melanoconion atratus</i>	72	3	
<i>melanurus</i> , distinctive characters of larva.....	72	3	
<i>Melanoplus bivittatus</i> , enemy of alfalfa.....	84	1-6	2
<i>differentialis</i> , enemy of alfalfa.....	84	1-6	1
host of <i>Mermis albicans</i>	62, rev.	3	
<i>spretus</i>	84	3, 4	3, 4
host of <i>Mermis albicans</i>	62, rev.	3	
<i>Melittia ceto</i> . (See <i>Melittia satyriniformis</i> .) <i>cucurbitæ</i> . (See <i>Melittia satyriniformis</i> .) <i>satyriniformis</i> , circular.....	38, rev. 2	1-6	1-2
remedies.....	38, rev. 2	5-6	
Melon aphid. (See <i>Aphis gossypii</i> .) bug, colloquial name for <i>Diabrotica vittata</i>	31, rev. 2	1	
louse, colloquial name for <i>Aphis gossypii</i>	80	1	
Melons (see also Cantaloupe, Cucurbits, Muskmelon, and Watermelon). food plants of <i>Aleyrodes vaporariorum</i>	57	2	
<i>Aphis gossypii</i>	80	4	
<i>Diabrotica 12-punctata</i>	59	3	
<i>vittata</i>	31, rev. 2	1	
<i>Menopon biserialum</i> on chickens.....	92	7	

	Circular No.	Page.	Figure.
<i>Menopon pallidum</i> , general account.....	92	4-7	3
remedies.....	92	6-7	
Mercurial ointment against ox warble.....	25	9	
<i>Merisus destructor</i> , parasite of <i>Mayetiola destructor</i>	70	12-13	14
<i>Mermis acuminata</i> , probable adult of <i>Mermis albicans</i>	62, rev.	2	
<i>albicans</i> , circular.....	62, rev.	1-6	1
spp., mistaken for <i>Mermis albicans</i>	62, rev.	5	
<i>Mesochorus aprilius</i> , parasite of <i>Apanites congregatus</i>	96	5	
Mice, hydrocyanic-acid gas as remedy.....	46, rev.	2	
Michigan, requirements relative to shipment of nursery stock.....	75, rev. 2	4	
<i>Micrococcus pteridis</i> , bacterial disease of <i>Pontia rapæ</i>	60	6	
<i>Micromus posticus</i> , enemy of <i>Aphis gossypii</i>	80	6	
<i>Microplitis catalpæ</i> , parasite of <i>Ceratonia catalpæ</i>	96	5	
Mignonette, food plant of <i>Pontia rapæ</i>	60	4	
Migrations of <i>Pontia rapæ</i>	60	4	
Migratory instinct among cockroaches.....	51, rev.	6	
in <i>Cimex lectularius</i>	47, rev.	1	
Milfoil. (See <i>Achillea millefolium</i> .)			
Milkweed. (See <i>Asclepias</i> .)			
Millet. (See <i>Panicum miliaceum</i> and <i>Bromus unioloides</i> .)			
<i>Milys cinctus</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	
Mimicry in <i>Sannina exitiosa</i>	17	1	
Minnesota, requirements relative to shipment of nursery stock.....	54	1	
Mint, horse. (See <i>Monarda fistulosa</i> .)	75, rev. 2	4	
Miscible oils against San Jose scale.....	42, ed. 5	6	
Mississippi, requirements relative to shipment of nursery stock.....	75, rev. 2	5	
Missouri, requirements relative to shipment of nursery stock.....	75, rev. 2	5	
Mite, chicken. (See <i>Dermanyssus gallinæ</i> .)			
clover. (See <i>Bryobia pratensis</i> .)			
depluming. (See <i>Cnemidocoptes gallinæ</i> .)			
enemy of house fly.....	35	8	
grasshopper. (See <i>Trombidium locustarum</i> .)	71, rev.	9	
six-spotted, on oranges.....	19, ed. 2	1	
Mites and lice on poultry, circular.....	92	1-8	1-6
enemies of canker-worms.....	9	2	
on poultry, a sure preventive.....	92	7-8	
<i>Mochlostyax erraticus</i> , distinctive characters of larva.....	72	3	
Molasses and arsenical against boll weevil.....	33	4	
<i>Monarda fistulosa</i> , food plant of <i>Anthonomus signatus</i>	21, rev.	4	
<i>Monarthrum mali</i> , injury to oak.....	82	2	1
<i>Monomorium minutum</i> , general account.....	34, rev.	2, 3	2
remedies.....	34, rev.	3	
<i>pharaonis</i> , enemy of <i>Cimex lectularius</i>	47, rev.	7	
general account.....	34, rev.	1, 2	1
remedies.....	34, rev.	2	
Montana, requirements relative to shipment of nursery stock.....	75, rev.	5	
Morning-glory, food plant of <i>Aphis gossypii</i>	80	5	
MORRILL, A. W., circular, "The Greenhouse White Fly (<i>Aleyrodes vaporariorum</i> Westw.)".....	57	1-9	1
Mosquito netting. (See Screen, wire.)			
Mosquitoes as carriers of malaria.....	40	1	
general account.....	13	1-3	
of North America, how to distinguish the different species, circular.....	40	1-7	1-3
tables for determination of genera and species, adults.....	40	4-7	
United States, key for determination of larvæ, circular.....	72	1-6	1
remedies.....	13	1-3	
Moth, Angoumois grain (<i>Sitotroga cerealella</i>), hydrocyanic-acid gas as remedy.....	46, rev.	2	
brown-tail. (See <i>Euproctis chrysorrhæa</i> .)			
"Buffalo." (See <i>Anthrenus scrophulariæ</i> .)			
case-making clothes. (See <i>Tinea pellionella</i> .)			
gypsy. (See <i>Porthetria dispar</i> .)			
Mediterranean flour (<i>Ephestia kuehniella</i>), hydrocyanic-acid gas as remedy.....	46, rev.	2	
southern clothes. (See <i>Tincola biselliella</i> .)			
tapestry. (See <i>Trichophaga tapetzella</i> .)			
tussock. (See Tussock moth, white-marked, and <i>Hemerocampa leucostigma</i> .)			
webbing clothes. (See <i>Tincola biselliella</i> .)			
Moths, carpet. (See Moths, clothes.)			
clothes, circular.....	36, rev.	1-8	1-3
hydrocyanic-acid gas as remedy.....	46, rev.	1, 2	
remedies.....	36, rev.	5-8	
fur. (See Moths, clothes.)			
small, prey of <i>Scutigera forceps</i>	48	2	
Mulberry, food plant of <i>Purpurina innumerabilis</i>	64	2	
<i>Thyridopteryx ephemeraformis</i>	97	4	
Mullein, food plant of <i>Leptinotarsa decemlineata</i>	87	8	
<i>Murgantia histrionica</i> , circular.....	10	1-2	[1]

	Circular No.	Page.	Figure.
<i>Murgantia histrionica</i> , remedies.....	10	2	
<i>Musca domestica</i> (see also Fly, house).			
and other house flies, remedies.....	35	5	
general account.....	71, rev. 35	5-10	1-3
insects mistaken therefor.....	71, rev. 35	1, 3-10	1
<i>Muscina stabulans</i> (see also <i>Cyrtoneura stabulans</i>).	71, rev. 35	1-3	
in houses.....	71, rev. 35	1-6	
Museums, infestation by <i>Tineola biselliella</i>	71, rev. 36	2, 3	3
Mushroom beds cultivated by tropical white ants.....	50, rev. 36	4	
Muskmelon (see also Cantaloupe, Cucurbits, and Melons).			
food plant of <i>Melittia satyriniformis</i>	38, rev. 2	2	
Mustard as trap crop for <i>Aphis brassicae</i>	80	15-16	
food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Murgantia histrionica</i>	10	1-2	
<i>Pontia rapæ</i>	60	4	
trap crop for cabbage aphids.....	80	15-16	
melon aphids.....	80	15	
Mycetophilid larvæ mistaken for <i>Mermis albicans</i>	62, rev. 62	5	
N.			
Naphtha against clothes moths.....	36, rev. 36	7	
Naphthaline against clothes moths.....	36, rev. 36	6	
itch mite of chickens.....	92	4	
powder-post beetles.....	55	5	
striped cucumber beetle.....	31, rev. 2	7	
and kerosene against common hen louse.....	92	6	
preventive of ill effects from exposure to "chiggers".....	77	5	
Nasturtium, food plant of <i>Pontia rapæ</i>	60	4	
Nebraska, requirements relative to shipment of nursery stock.....	75, rev. 2	5	
Nectarine, food plant of <i>Conotrachelus nenuphar</i>	73	4, 5	
<i>Scolytus rugulosus</i>	29, rev. 2	2	
<i>Nectarophora curcurbitæ</i> , the squash aphid.....	80	3	
destructor= <i>Macrosiphum pisi</i>	43, ed. 2	1	
<i>Negundo negundo</i> . (See Box-elder.)			
Nelumbo, food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Nemoræa leucaniæ</i> , parasite of <i>Leucania unipuncta</i>	4	5	3
<i>Neocosmospora vasinfecta</i> (see also <i>Bacillus trachiphilus</i>).			
spread by <i>Diabrotica vittata</i>	31, rev. 2	2	
<i>Nepeta glechoma</i> , food plant of <i>Aphis gossypii</i>	80	5	
Netherlands, laws relative to importation of American plants, trees, and fruits.....	41	4	
Netting. (See Screen.)			
Nevada, requirements relative to shipment of nursery stock.....	75, rev. 2	5	
New Hampshire, requirements relative to shipment of nursery stock.....	75, rev. 2	5	
Jersey, requirements relative to shipment of nursery stock.....	75, rev. 2	5	
Mexico, requirements relative to shipment of nursery stock.....	75, rev. 2	5	
York, requirements relative to shipment of nursery stock.....	75, rev. 2	5-6	
Zealand, laws relative to importation of American plants, trees, and fruits.....	41	4	
Newspaper barriers against fruit-tree bark-beetle.....	29, rev. 29	7	
round-headed apple-tree borer.....	32, rev. 3	6	
two-lined chestnut borer.....	24, rev. 24	6	
<i>Nezara hilaris</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	
Nighthawk, enemy of <i>Leptinotarsa decemlineata</i>	87	12	
Nightshade, beaked. (See <i>Solanum rostratum</i> .)			
Nitrate of soda against seed-corn maggot.....	63, ed. 2	3	
North Carolina, requirements relative to shipment of nursery stock.....	75, rev. 2	6	
Dakota, requirements relative to shipment of nursery stock.....	75, rev. 2	6	
Nursery stock, fumigation with hydrocyanic-acid gas.....	46, rev. 46	1	
requirements relative to shipment, circular.....	75, rev. 2	1-9	
Nut weevils, circular.....	99	1-15	1-14
<i>Nymphæa candidissima</i> , <i>odora</i> , and <i>rosea</i> , fumigation with hydrocy- anic-acid gas.....	37, rev. 2	3	
O.			
Oak, food plant of <i>Chrysobothris femorata</i>	32, rev. 3	9	
<i>Malacosoma americana</i>	98	2	
<i>Monarthrum mali</i>	82	2	1
<i>Platypus compositus</i>	82	2	1
<i>Pulvinaria innumerabilis</i>	64	2	
<i>Thyridopteryx ephemeraeformis</i>	97	4	
scarlet. (See <i>Quercus coccinea</i> .)			
white, food plant of <i>Agrius bilineatus</i>	24, rev. 24	4	
yellow. (See <i>Quercus velutina</i> .)			
Oats, food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Euthrips nicotianæ</i>	68	3	
<i>Leucania unipuncta</i>	4	1	
<i>Siphocoryne avenæ</i>	81	3	
<i>Toxoptera graminum</i>	85	4	
	93, rev. 93	2, 5	

	Circular No.	Page.	Figure.
<i>Oberea schaumii</i> , injury to <i>Populus monilifera</i>	23	2	.....
<i>Ochlerotatus abfitchii</i> , distinctive characters of larva.....	72	4	.....
<i>zeftialis</i> , distinctive characters of larva.....	72	6	.....
<i>atropalpus</i> , distinctive characters of larva.....	72	4	.....
<i>aurifera</i> , distinctive characters of larva.....	72	4	.....
<i>auroides</i> , distinctive characters of larva.....	72	5	.....
<i>bimaculatus</i> , distinctive characters of larva.....	72	4	.....
<i>canadensis</i> , distinctive characters of larva.....	72	5	.....
<i>cantator</i> , distinctive characters of larva.....	72	5	.....
<i>cinereoborealis</i>	72	4	.....
<i>confirmatus</i>	72	5	.....
<i>damnosus</i> , distinctive characters of larva.....	72	5	.....
<i>dupreii</i> , distinctive characters of larva.....	72	4	.....
<i>fitchii</i> , distinctive characters of larva.....	72	5	.....
<i>impiger</i> , distinctive characters of larva.....	72	4	.....
<i>inconspicuus</i> , distinctive characters of larva.....	72	5	.....
<i>lativittatus</i>	72	6	.....
<i>lazarensis</i> , distinctive characters of larva.....	72	6	.....
<i>mitchellæ</i> , distinctive characters of larva.....	72	5	.....
<i>nivitaris</i> , distinctive characters of larva.....	72	5	.....
<i>pretans</i> , distinctive characters of larva.....	72	6	.....
<i>pullatus</i> , distinctive characters of larva.....	72	5	.....
<i>punctor</i> , distinctive characters of larva.....	72	4	.....
<i>serratus</i>	72	4	.....
<i>solicitans</i> , distinctive character of larva.....	72	5	.....
<i>subcantans</i> , distinctive characters of larva.....	72	6	.....
<i>syvestris</i> , distinctive characters of larva.....	72	4	.....
<i>tæniorhynchus</i>	72	5	.....
<i>trichurus</i> , distinctive characters of larva.....	72	4	.....
<i>triseriatus</i> , distinctive characters of larva.....	72	5	.....
<i>trivittatus</i> , distinctive characters of larva.....	72	5	.....
<i>varipalpus</i> , distinctive characters of larva.....	72	5	.....
<i>Ocneria dispar</i> . (See <i>Porthetria dispar</i> .).....			
Ohio, requirements relative to shipment of nursery stock.....	75, rev. 2	6	.....
Oil (see also Kerosene and Petroleum). residuum, against house fly.....	71, rev.	8	.....
washes and emulsions against San Jose scale.....	42, ed. 5	4-7	.....
Oil-water treatment against San Jose scale.....	42, ed. 5	5-6	.....
Oils against bedbug.....	47, rev.	7	.....
ox warble.....	25	8-10	.....
and carbolic acid against ox warble.....	25	8	.....
sulphur against ox warble.....	25	8	.....
Oklahoma, requirements relative to shipment of nursery stock.....	75, rev. 2	6	.....
Okra, food plant of <i>Aphis gossypii</i>	80	4	.....
<i>Diabrotica 12-punctata</i>	59	3	.....
Olive, food plant of <i>Eulecanium nigrofasciatum</i>	88	2	.....
Onion, food plant of <i>Pegomya cepetorum</i>	63, ed. 2	6-7	.....
<i>fusciceps</i>	63, ed. 2	2	.....
maggot. (See Maggot, imported onion.) imported. (See Maggot, imported onion.)			
thrips. (See <i>Thrips tabaci</i> .)			
<i>Ononis natrix</i> , food plant of <i>Hylastinus obscurus</i>	67	3	.....
<i>Ooencyrtus anasæ</i> , parasite of <i>Anasa tristis</i>	39, rev. 2	4	.....
Orange and other citrus fruits, food plants of <i>Aphis gossypii</i>	80	4	.....
aphis. (See <i>Aphis gossypii</i> .) white fly. (See <i>Aleyrodes citri</i> .)			
Orchard grass. (See <i>Dactylis glomerata</i> .) scolytus. (See <i>Scolytus rugulosus</i> .)			
trees, injury by periodical cicada.....	22 30 44 74 89	1 1 1-2 5 4	.....
Oregon, requirements relative to shipment of nursery stock.....	75, rev. 2	6	.....
Oriole, Baltimore, enemy of <i>Ceratonia catalpæ</i>	96	6	.....
<i>Malacosoma americana</i>	98	6	.....
Ornamental plants, food of <i>Macrodactylus subspinosus</i>	11, rev.	2	.....
<i>Orthezia insignis</i> on coleus.....	37, rev. 2	3	.....
Osage-orange, food plant of <i>Pulvinaria innumerabilis</i>	64	2	.....
<i>Pulvinaria</i> . (See <i>Pulvinaria macluræ</i> .)			
Otiiorhynchus ovatus, mistaken for <i>Anthonomus signatus</i> as straw- berry pest in Rocky Mountain region.....	21, rev.	3	.....
Ovens, infestation by <i>Lepisma domesticum</i>	49	3	.....
Ox warble. (See <i>Hypoderma lineata</i> .) "wormal," colloquial name for <i>Hypoderma lineata</i>	25	1	.....
P.			
<i>Pachyneuron</i> sp., parasite of <i>Aphis gossypii</i>	80	6	.....
<i>Paleacrita vernata</i> , general account.....	9	1-3	1-2
remedies.....	9	2-3	.....
Pan American Platypus. (See <i>Platypus compositus</i> .)			
<i>Panax victorie</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	.....
<i>Pandanus veitchii</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	.....

	Circular No.	Page.	Figure.
<i>Panicum miliaceum</i> , food plant of <i>Diabrotica 12-punctata</i>	59	4	
possible food plant of <i>Toxoptera graminum</i>	85	4	
Paper, wall, injury by <i>Lepisma saccharina</i>	49	2	
wrappings against peach-tree borer.....	17	3	
54		3	
Papers, destruction by <i>Termes flavipes</i>	50, rev.	4, 5	
eaten by <i>Lepisma saccharina</i>	49	1, 2	
<i>Paragordius varius</i> mistaken for <i>Mermis albicans</i>	62, rev.	5	
Parasites and enemies of brown-tail moth, importation from abroad.....	58	12	
gypsy moth, importation from abroad.....	58	9-10	
encouragement against bagworm.....	97	9	
pine weevil.....	90	7-8	6
introduction against "green bug".....	93, rev.	7-14	
protection in work against catalpa sphinx.....	96	6-7	
<i>Parharmonia piceæ</i> , work in Sitka spruce.....	61	9	
Paris green against apple-tree tent caterpillar.....	98	8	
army worm.....	4	3	
bagworm.....	97	9-10	
boll weevil.....	6	5	
catalpa sphinx.....	33	2, 3	
Colorado potato beetle.....	96		
corn root-worm, southern.....	87	13-14	
elm leaf-beetle.....	59	5	
fall canker-worm.....	8, rev.	5	
imported cabbage worm.....	9	3	
pear slug.....	60	6	
plum curculio.....	26	6	
slender seed-corn ground-beetle.....	73	9	
spring canker-worm.....	78	5	
strawberry weevil.....	9	2	
striped cucumber beetle.....	21, rev.	8	
and Bordeaux mixture against strawberry weevil.....	31, rev. 2	6	
bran mash against imported cabbage worm.....	21, rev.	8, 9	
corn meal against tobacco budworm.....	60	7	
lime against two-lined chestnut borer.....	68	3-4	
plaster ineffective against strawberry weevil.....	24, rev.	7	
salt and horse droppings against grasshoppers.....	21, rev.	7	
yellow - winged locust.....	84	9	
soap against peach-tree borer.....	53	3	
as insecticide.....	17	4	
carbolic acid, soap, lime, and clay against peach-tree borer.....	1	5-7	
originally used as insecticide to destroy Colorado potato beetle.....	17	4	
54		4	
useless against chestnut weevils.....	87	2	
99		6	
Parthenogenesis in <i>Lysiphlebus tritici</i>	93, rev.	16	
<i>Pasimachus elongatus</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	10	
Paste eaten by cockroaches.....	51, rev.	4	
<i>Lepisma saccharina</i>	49	2	
Pasturing against clover root-borer.....	67	5	
Pea aphid. (See <i>Macrosiphum pisi</i> .)			
food plant of <i>Diabrotica vittata</i>	31, rev. 2	2	
<i>Hylastinus obscurus</i>	67	2	
<i>Macroductylus subspinosus</i>	11, rev.	2	
<i>Macrosiphum pisi</i>	43, ed. 2	1-4	
<i>Pegomya fusciceps</i>	63, ed. 2	2	
louse, destructive green. (See <i>Macrosiphum pisi</i> .)			
sweet, food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Macrosiphum pisi</i>	43, ed. 2	4	
Peach, food plant of <i>Bryobia pratensis</i>	19, ed. 2	2	
<i>Chrysobothris femorata</i>	32, rev. 3	9	
<i>Conotrachelus nenuphar</i>	73	4, 5	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Diaspis pentagona</i>	52, ed. 2	4	
<i>Eulecanium nigrofasciatum</i>	88	2	
<i>Leptocoris trivittatus</i>	28	1	
<i>Macroductylus subspinosus</i>	11, rev.	2	
<i>Malacosoma americana</i>	98	2	
<i>Pulvinaria innumerabilis</i>	64	2	
San Jose scale.....	3	1	
<i>Scolytus rugulosus</i>	29, rev.	2	
rosette, quarantine regulations of foreign governments against introduction from the United States.....	41	2	
soft scale of Europe. (See <i>Eulecanium persicæ</i> .)			
tree borer. (See <i>Sannina eritiosa</i> .)			
yellows, quarantine regulations of foreign governments against introduction from the United States.....	41	2	
Pear, Bartlett, seriously injured by <i>Psylla pyricola</i>	7	2	
Buffon, not seriously injured by <i>Psylla pyricola</i>	7	2	
Duchess, seriously injured by <i>Psylla pyricola</i>	7	2	
Dwarf Lawrence, seriously injured by <i>Psylla pyricola</i>	7	2	
food plant of <i>Aphis gossypii</i>	80	5	

	Circular No.	Page.	Figure.
Pear, food plant of <i>Aphis mali</i>	81	5	.....
<i>malifolia</i>	81	7	.....
<i>Bryobia pratensis</i>	19, ed. 2	2	.....
<i>Chrysobothris femorata</i>	32, rev. 3	9	.....
<i>Conotrachelus nenuphar</i>	73	5	.....
<i>Diabrotica 12-punctata</i>	59	3	.....
<i>Eriocampoides limacina</i>	26	1-7	.....
<i>Eulecanium nigrofasciatum</i>	88	2	.....
<i>Euproctis chrysorrhoea</i>	58	11	.....
<i>Macrodactylus subspinosus</i>	11, rev.	2	.....
<i>Malacosoma americana</i>	98	2	.....
<i>Psylla pyricola</i>	7	1-2	.....
<i>Pulvinaria innumerabilis</i>	64	2	.....
San Jose scale.....	3	1	.....
<i>Saperda candida</i>	32, rev. 3	3	.....
<i>Scolytus rugulosus</i>	29, rev.	2	.....
<i>Siphocoryne avenae</i>	81	3	.....
Kieffer, not seriously injured by <i>Psylla pyricola</i>	7	2	.....
LeConte, not seriously injured by <i>Psylla pyricola</i>	7	2	.....
slug. (See <i>Eriocampoides limacina</i> .)			
Standard Lawrence, not seriously injured by <i>Psylla pyricola</i> ..	7	2	.....
tree <i>Psylla</i> . (See <i>Psylla pyricola</i> .)			
Pecan, food plant of <i>Balaninus caryæ</i>	99	12, 14	.....
weevil. (See <i>Balaninus caryæ</i> .)			
<i>Pediculoides ventricosus</i> , enemy of <i>Isosoma tritici</i>	66, rev.	4	.....
<i>Pegomya brassicæ</i> . (See Maggot, cabbage, and Maggot, radish.)			
<i>cepetorum</i> . (See Maggot, imported onion.)			
<i>fusciceps</i> , general account.....	63, ed. 2	1-3	1
remedies.....	63, ed. 2	2-3	.....
Pennsylvania, requirements relative to shipment of nursery stock..	75, rev. 2	6-7	.....
<i>Penitilia</i> sp., enemy of <i>Tetranychus gloveri</i>	65	3	.....
Pepper, food plant of <i>Leptinotarsa decemlineata</i>	87	8	.....
grass, food plant of <i>Aphis gossypii</i>	80	5	.....
Peppermint as remedy for "chiggers".....	77	6	.....
<i>Perillus circumcinctus</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	.....
<i>claudus</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	.....
<i>Malacosoma americana</i>	98	6	.....
Periodical cicada. (See Cicada, periodical.)			
<i>Periplaneta americana</i> , general account.....	51, rev.	1, 3, 7, 8	1-2
remedies.....	51, rev.	11-14	.....
<i>australasizæ</i> , general account.....	51, rev.	3, 8, 9	3
remedies.....	51, rev.	11-14	.....
<i>germanica</i> . (See <i>Blattella germanica</i> .)			
<i>orientalis</i> . (See <i>Blatta orientalis</i> .)			
Persimmon, food plant of <i>Conotrachelus nenuphar</i>	73	4	.....
Petroleum against locust borer.....	83	6	.....
white ants.....	8	.....
yellow-winged locust.....	50, rev.	8	.....
crude, against San Jose scale.....	53	2	.....
emulsion, crude, against apple aphides.....	42, ed. 5	5	.....
soap emulsion against San Jose scale.....	81	9, 10	.....
Petunia, food plant of <i>Leptinotarsa decemlineata</i>	42, ed. 5	6	.....
<i>Phalangium dorsatum</i> . (See <i>Liobunum dorsatum</i> .)	87	8	.....
PHILLIPS, E. F., circular, "The Brood Diseases of Bees"	79	1-5	.....
<i>Philonthus apicalis</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	.....
Phorbia. (See <i>Pegomya</i> .)			
<i>ceparum</i> = <i>Pegomya cepetorum</i>	63, ed. 2	6	.....
<i>Phormia terrænovæ</i> in houses.....	71, rev.	2-3	4
<i>Phorocera doryphoræ</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	.....
<i>Phorodon humuli</i> , circular.....	2	1-7	1-6
remedies.....	2	4-7	.....
Phosphorus paste against cockroaches.....	51, rev.	12	.....
<i>Phrynum variegatum</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	.....
<i>Phyllobenus dislocatus</i> , enemy of <i>Scolytus rugulosus</i>	29, rev.	6	.....
<i>Phyllodromia germanica</i> . (See <i>Blattella germanica</i> .)			
<i>Phyllosticta catalpæ</i> , a leaf-spot disease of catalpa.....	96	6	.....
<i>Phylloxera</i> of grape (<i>Phylloxera vastatrix</i>), insecticides.....	1	5	.....
<i>Phymata wolfii</i> , enemy of <i>Pontia rapæ</i>	60	6	6
<i>Physalis</i> , food plant of <i>Leptinotarsa decemlineata</i>	87	8	.....
<i>Phytolacca decandra</i> , food plant of <i>Tetranychus gloveri</i>	65	3	.....
food plant of <i>Diabrotica 12-punctata</i>	59	3	.....
<i>Phytonomus punctatus</i> , fungus enemy.....	69	2	.....
the clover-leaf weevil, work in relation to that			
of clover-flower midge (<i>Dasyneura legumi-</i>			
<i>nicola</i>).....	69	1-2	1
<i>Picea sitchensis</i> . (See Spruce, Sitka.)			
"Pickle brood." (See Brood, pickle.)			
"Picudo," Mexican name for <i>Anthonomus grandis</i>	6	2	.....
	14	5	.....
	18	5	.....
<i>Pieris rapæ</i> . (See <i>Pontia rapæ</i> .)			
Pigeon grass. (See <i>Ixophorus glaucus</i> .)			
mite, not same as poultry mite.....	92	2	.....
Pigweed. (See <i>Amaranthus</i> .)			

	Circular No.	Page.	Figure.
<i>Pimpla annulipes</i> , parasite of <i>Malacosoma americana</i>	98	5	
<i>conquisitor</i> , parasite of <i>Malacosoma americana</i>	98	5	
<i>Thyridopteryx ephemeræformis</i>	97	6	
<i>inquisitor</i> , parasite of <i>Malacosoma americana</i>	98	5	
<i>Thyridopteryx ephemeræformis</i>	97	6-7	6
tussock moth and <i>Malacosoma</i> spp.....	97	6	
<i>pedalis</i> , parasite of <i>Malacosoma americana</i>	98	5	
Pin borer, girdled-cypress. (See <i>Platypus compositus</i> .)			
borers, injury to girdled cypress.....	82	1-3	
worms, injury to girdled cypress.....	82	1-3	
Pine, destruction by <i>Dendroctonus frontalis</i>	24, rev.	1	
jack, host tree of <i>Pissodes strobi</i>	90	3	
lodgepole. (See <i>Pinus murrayana</i> .)			
pitch, host tree of <i>Pissodes strobi</i>	90	3	
weevil, white. (See <i>Pissodes strobi</i> .)			
white, host tree of <i>Pissodes strobi</i>	90	1-7	2-5
yellow. (See <i>Pinus ponderosa</i> .)			
Pinhole injury to girdled cypress, circular.....	82	1-4	1
<i>Pinus ponderosa</i> , host tree of <i>Dendroctonus</i> sp.....	61	9	
yellow-pine bark maggot.....	61	9	
<i>murrayana</i> , host tree of bark maggot.....	61	9	
<i>Dendroctonus</i> sp.....	61	9	
<i>Pipiza radicum</i> , enemy of <i>Schizoneura lanigera</i>	20, rev.	6	
<i>Pissodes strobi</i> , circular.....	90	1-8	1-6
remedies.....	90	7-8	
Pitch-worm, spruce. (See <i>Parharmonia piceæ</i> .)			
Plantain, food plant of <i>Aphis gossypii</i>	80	5	
Plant bug, box-elder. (See <i>Leptocoris trivittatus</i> .)			
foliage seldom if ever eaten by cockroaches.....	51, rev.	2-3	
lice (see also Aphides).....			
hydrocyanic-acid gas as remedy.....	46, rev.	1	
louse, apple-root. (See Apple root-louse and <i>Schizoneura lanigera</i> .)			
products, food of cockroaches.....	51, rev.	3	
Plaster, land, against striped cucumber beetle.....	31, rev. 2	6	
and turpentine against squash bug.....	39, rev. 2	5	
impracticable against house flies.....	35	6	
of Paris against carpet beetle.....	71, rev.	6	
cockroaches.....	5, rev.	3	
and sulphur against cotton red spider.....	51, rev.	14	
<i>Platygaster herrickii</i> , parasite of <i>Mayetiola destructor</i>	65	4	
sp., parasite of <i>Malacosoma americana</i>	70	12-13	15
<i>Platygerhus</i> (?) <i>scolyti</i> , parasite of <i>Scolytus rugulosus</i>	98	5	
<i>Platypus compositus</i> , injury to girdled cypress.....	29, rev.	6	
Plowing. (See Cultural methods.)	82	2-3	1
<i>Plowrightia morbosa</i> , food of <i>Conotrachelus nenuphar</i>	73	4	
Plum curculio. (See Curculio, plum.)			
food plant of <i>Bryobia pratensis</i>	19, ed. 2	2	
<i>Chrysobothris femorata</i>	32, rev. 3	9	
<i>Conotrachelus nenuphar</i>	73	4-5	
<i>Diaspis pentagona</i>	52	4	
<i>Eriocampoides limacina</i>	26	1,3	
<i>Eulecanium nigrofasciatum</i>	88	2	
<i>Leptocoris trivittatus</i>	28	1	
<i>Macroductylus subspinosus</i>	11, rev.	2	
<i>Malacosoma americana</i>	98	2	
<i>Phorodon humuli</i>	2	3-4	
<i>Pulvinaria innumerabilis</i>	64	2	
San Jose scale.....	3	1	
<i>Sannina exitiosa</i>	17	1	
<i>Scolytus rugulosus</i>	54	1-2	
<i>Siphocoryne avenæ</i>	29, rev.	2	
<i>Siphocoryne avenæ</i>	81	3	
<i>Plusia brassicæ</i> . (See <i>Autographa brassicæ</i> .)			
<i>Pneumaculex signifer</i> , distinctive characters of larva.....	72	3	
<i>Poa pratensis</i> , food plant of <i>Toxoptera graminum</i>	93, rev.	5	
<i>Podabrus rugulosus</i> , enemy of <i>Macrosiphum pisi</i>	43, ed. 2	11	
<i>Podisus cynicus</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	5	
<i>maculiventris</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	6
<i>modestus</i> , enemy of <i>Malacosoma americana</i>	98	6	
<i>placidus</i> , enemy of <i>Malacosoma americana</i>	98	6	
<i>sericeiventris</i> , enemy of <i>Malacosoma americana</i>	98	6	
<i>spinosus</i> , enemy of <i>Malacosoma americana</i>	98	6	
<i>Pontia rapæ</i>	60	6	
= <i>Podisus maculiventris</i>	87	11	
Poison from centipede bites.....	48	3	
ivy, food plant of <i>Pulvinaria innumerabilis</i>	64	3	
Poisoned bait against grasshoppers.....	84	9	
Poisoning from hairs of brown-tail catapillars.....	58	10	
Pokeberry. (See <i>Phytolacca decandra</i> .)			
Pokeweed. (See <i>Phytolacca</i> .)			
<i>Polistes pallipes</i> and other wasps, enemies of <i>Pontia rapæ</i>	60	6	
enemy of <i>Leptinotarsa decemlineata</i>	87	11	

	Circular No.	Page.	Figure.
<i>Polistes rubiginosus</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	
<i>Pollenia rudis</i> in houses, habits.....	35	2	
<i>Polygnotus hiemalis</i> , parasite of <i>Mayetiola destructor</i>	71, rev. 70	1-2	11
<i>minutus</i> , parasite of <i>Mayetiola destructor</i>	70	12	
<i>Polypogon monspeliensis</i> , food plant of <i>Toxoptera graminum</i>	93, rev. 60	3	
<i>Pontia protodice</i> , the southern cabbage butterfly.....	60	6	
<i>rapæ</i> , circular.....	60	1-8	1-6
remedies.....	60	6-8	
Poplar (see also Cottonwood).			
Carolina, food plant of <i>Eulecanium nigrofasciatum</i>	88	2	
<i>Bryobia pratensis</i>	19, ed. 2	2	
<i>Malacosoma americana</i>	98	2	
<i>Pulvinaria innumerabilis</i>	64	2	
<i>Thyridopteryx ephemeraformis</i>	97	4	
<i>Populus monilifera</i> . (See Cottonwood.)			
Porter's chess. (See <i>Bromus porteri</i> .)			
<i>Porthetria dispar</i> , means of control.....	58	7-10	
report on conditions in New England, July, 1904.....	58	1-10	1-2
Porto Rico, requirements relative to shipment of nursery stock.....	75, rev. 2	7	
Potato beetle, Colorado. (See <i>Leptinotarsa decemlineata</i> .)			
bug, colloquial name for Colorado potato beetle.....	87	1	
food plant of blister beetles.....	87	3	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Epicauta vittata</i>	87	3	
<i>Leptinotarsa decemlineata</i>	87	3	
<i>Pegomya fusciceps</i>	63, ed. 2	1-10	
of <i>Termes flavipes</i>	50, rev. 2	2	
<i>Potentilla canadensis</i> , food plant of <i>Anthrenus signatus</i>	21, rev. 2	6	
Poultry (see also Fowls and Chicken).			
houses, infestation by <i>Cimex lectularius</i>	47, rev. 92	3	
mites and lice, circular.....	55	1-8	1-6
Powder-post beetles, remedies.....	55	3-5	
injury to seasoned wood products, circular.....	55	1-5	1
<i>Praon cerasaphis</i> , parasite of <i>Macrostiphum pist.</i>	43, ed. 2	5	
"Preussen," colloquial name for <i>Blattella germanica</i>	51, rev. 2	2	
Primula, food plant of <i>Aleyrodes vaporariorum</i>	57	2	
Privy, box, breeding place of house flies.....	71, rev. 8	2	
<i>Proctocanthus milbertii</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	
<i>Promachus superæ</i> = <i>Cenocaulus populator</i>	32, rev. 3	5	
Prune, food plant of <i>Bryobia pratensis</i>	19, ed. 2	2	
Pruning against apple aphides.....	81	9	
<i>Prunus simonii</i> , food plant of <i>Eulecanium nigrofasciatum</i>	88	2	
Psorophora, distinctive characters of adults.....	40	4	
<i>ciliata</i> , distinctive characters of larva.....	72	1	
synonyms.....	40	7	
<i>howardi</i> , distinctive characters of larva.....	72	1	
Psylla, pear-tree. (See <i>Psylla pyricola</i> .)			
<i>pyricola</i> , circular.....	7	1-8	1-6
remedies.....	7	7-8	
<i>simulans</i> = winter form of <i>Psylla pyricola</i>	7	3	
<i>Pteromalus bimaculatus</i> , parasite of <i>Scolytus rugulosus</i>	29, rev. 5	5	
sp., parasite of <i>Malacosoma americana</i>	98	5	
<i>puparum</i> , parasite of <i>Pontia rapæ</i>	60	6.8	5
Publications of the Bureau of Entomology, list, circular.....	76, rev. to Feb. 1, 1910.	1-32	
<i>Pulex irritans</i> , not the common species in houses in the United States.....	13	3	
<i>serraticeps</i> , general account.....	13	3-4	
remedies.....	13	4	
<i>Pulvinaria acericola</i> , the maple-leaf Pulvinaria.....	64	2	
<i>innumerabilis</i> , circular.....	64	1-6	1-4
remedies.....	64	4-6	
<i>macluræ</i> , the orange-orange Pulvinaria.....	64	2	
Pumpkin (see also Cucurbits).			
food plant of <i>Anasa tristis</i>	39, rev. 2	1	
<i>Diabrotica 12-punctata</i>	59	3	
<i>longicornis</i>	59	7	
<i>vittata</i>	31, rev. 2	2	
<i>Melittia satyriniformis</i>	38, rev. 2	1.2	
Purslane, food plant of <i>Aphis gossypii</i>	80	5	
Pyrethrum against clover mite.....	19, ed. 2	4	
cockroaches.....	51, rev. 12-13	4	
fleas.....	13	4	
house centipede.....	48	4	
imported cabbage worm.....	60	7-8	
melon aphid.....	80	9	
mosquitoes.....	13	1	
silver fish.....	49	4	
striped cucumber beetle.....	31, rev. 2	7	
ineffective against rose-chaffer.....	11, rev. 3	3	
strawberry weevil.....	21, rev. 7	7	

	Circular No.	Page.	Figure.
Q.			
Quail, enemy of boll weevil.....	27	6	
grasshoppers.....	84	4	
<i>Leptinotarsa decemlineata</i> and chinch bug.....	87	11-12	
QUAINTANCE, A. L., circular, "The Aphides Affecting the Apple" "The Apple-tree Tent Caterpillar (<i>Malacosoma americana</i> Fab.)".....	81	1-10	1-8
Quassia decoctions ineffective against rose-chaffer.....	98	1-8	1-4
11, rev. 3			
<i>Quedius molochinus</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	
<i>Quercus coccinea</i> , food plant of <i>Agrilus bilineatus</i>	24, rev. 4		
<i>velutina</i> , food plant of <i>Agrilus bilineatus</i>	24, rev. 4		
Quince, food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Eulecanium nigrofasciatum</i>	88	2	
San Jose scale.....	3	1	
<i>Saperda candida</i>	32, rev. 3	3	
<i>Scolytus rugulosus</i>	29, rev. 2	2	
<i>Siphocoryne avenæ</i>	81	3	
R.			
Radish, food plant of <i>Murgantia histrionica</i>	10	1-2	
<i>Pegomya brassicæ</i>	63, ed. 2	3	
<i>fusciceps</i>	63, ed. 2	2	
<i>Pontia rapæ</i>	60	4	
maggot. (See Maggot, radish, and Maggot, cabbage.)			
Ragweed, food plant of <i>Aphis maidi-radici</i>	86	6	
<i>Diabrotica longicornis</i>	59	7	
<i>Thyridopteryx ephemeraeformis</i>	97	4	
<i>Toxoptera graminum</i>	93, rev. 6		
Rain. (See Weather.)			
Rape butterfly, colloquial name for <i>Pontia rapæ</i>	60	1	
trap crop for melon aphid.....	80	15	
<i>Raphitellus maculatus</i> , parasite of <i>Scolytus rugulosus</i>	29, rev. 6, 7		5
Raspberry, black-cap, food plant of <i>Anthonomus signatus</i>	21, rev. 2		
food plant of <i>Diabrotica 12-punctata</i>	59	3	
Rats, hydrocyanic-acid gas as remedy.....	46, rev. 2		
Raupenleim against two-lined chestnut borer.....	24, rev. 7		
Redbud tree. (See <i>Cercis canadensis</i> .)			
cultivated. (See <i>Cercis chinensis</i> .)			
Red bug, colloquial name for harvest mite or "chigger".....	77	1	
coat, colloquial name for <i>Cimex lectularius</i>	47, rev. 2		
spider, confusion with clover mite.....	19, ed. 2	1	
cotton. (See <i>Tetranychus gloveri</i> .)			
spiders on <i>Phytolacca decandra</i> and <i>Xanthium</i> spp.....	65	3	
Redwood, California, not injured by white ants.....	50, rev. 8		
"Reptile," colloquial name for <i>Mermis albicans</i>	62, rev. 2		
Resin wash against aerial form of woolly aphid.....	20, rev. 4		
grape Phylloxera and apple root-louse.....	1	5	
washes against San Jose scale.....	3	7	
as insecticides.....	1	3-5	
<i>Rhizophagus bipunctatus</i> , enemy of <i>Scolytus rugulosus</i>	29, rev. 6		
Rhode Island, requirements relative to shipment of nursery stock.....	75, rev. 2	7	
<i>Rhogas intermedius</i> , parasite of <i>Malacosoma americana</i>	98	5	
Rhubarb, food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Rhyncholophus parvus</i> , enemy of <i>Macrosiphum pisi</i>	43, ed. 2	5	
[RILEY, C. V.], circular, "Condensed Information Concerning Some of the More Important Insecticides" "The Hop Plant-louse and the Remedies to be Used Against It".....	1	1-7	
2		1-7	1-6
<i>Rivoltasia bifurcata</i> on fowls.....	92	4	
Roach. (See Cockroach.)			
Road dust. (See Dust.)			
Robin, enemy of <i>Leptinotarsa decemlineata</i>	87	12	
<i>Robinia pseudacacia</i> . (See Locust, black.)			
Rocky Mountain locust. (See <i>Melanoplus spretus</i> .)			
Rolling against "green bug".....	85	6	
93, rev. 19			
Root borers of strawberry, arsenicals as remedy.....	21, rev. 8		
maggots and how to control them, circular.....	63, ed. 2	1-7	1-5
Rose-chaffer. (See <i>Macrodactylus subspinosus</i> .)			
Rose, food plant of <i>Aleyrodes vaporariorum</i>	57	2	
<i>Diabrotica 12-punctata</i>	59	3	
<i>Macrodactylus subspinosus</i>	11, rev. 1-2		
<i>Malacosoma americana</i>	98	2	
<i>Pulvinaria innumerabilis</i>	64	2	
San Jose scale.....	3	1	
Roses, fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
white, attractive to rose-chaffer.....	11, rev. 4		
Rumex, food plant of <i>Aphis gossypii</i>	80	5	
"Russen," colloquial name for <i>Blattella germanica</i>	51, rev. 2		
"Rust mite," colloquial name for <i>Tetranychus gloveri</i>	65	1	
Rusts, food of <i>Diabrotica longicornis</i>	59	7	
Rye, food plant of (<i>Cecidomyia</i>) <i>Mayetiola destructor</i>	12, rev. 1		
70		7	

	Circular No.	Page.	Figure.
Rye, food plant of <i>Diabrotica 12-punctata</i>	59	3, 4	
<i>Siphocoryne avenæ</i>	81	3	
<i>Toxoptera graminum</i>	85	4	
slender wild. (See <i>Elymus striatus</i> .)	93, rev.	2, 5	
S.			
Sabethinæ, distinctive characters of larvæ.....	72	1	
Saleratus. (See Soda.)			
Salt against corn root-aphis.....	86	12	
grass. (See <i>Distichlis spicata</i> .)			
Paris green, and horse droppings against grasshoppers.....	84	9	
yellow-winged locust.....	53	3	
water, hot, against nut weevils.....	99	10	
preventive of ill effects from exposure to "chiggers".....	77	5	
Salvia, food plant of <i>Aleyrodes vaporariorum</i>	57	2	
Sand and kerosene against seed-corn maggot.....	63, ed. 2	2	
bur. (See <i>Solanum rostratum</i> .)			
flea. (See <i>Sarcopsylla penetrans</i> .)			
SANDERS, J. G., circular, "The Cottony Maple Scale (<i>Pulvinaria innumerabilis</i> Rathvon)".....	64	1-6	1-4
"The Terrapin Scale (<i>Eulecanium nigro-fasciatum</i> Pergande)".....	88	1-4	1-3
<i>Sannina exitiosa</i> , circulars.....	17	1-4	1
remedies.....	54	1-6	1
<i>opalescens</i> , pest on Pacific coast.....	17	3-4	
<i>Saperda candida</i> , general account.....	54	3-6	
remedies.....	54	2	
<i>cretata</i> , brief account.....	32, rev. 3	1-7	1
remedies.....	32, rev. 3	5-7	
<i>Sarcophaga cimbicis</i> , parasite of grasshoppers.....	32, rev. 3	7-8	2
<i>georgina</i> , parasite of grasshoppers.....	32, rev. 3	8	
<i>hunteri</i> , parasite of grasshoppers.....	84	4	
<i>Sarcopsylla penetrans</i> , the pernicious sand-flea of tropical America.....	84	4-5	5
Scalding against chestnut weevils.....	77	1	
Scall, cottony maple. (See <i>Pulvinaria innumerabilis</i> .)	99	10	
insects on citrus trees, hydrocyanic-acid gas as remedy.....	46, rev.	1	
pests in greenhouses and cold frames, hydrocyanic-acid gas as remedy.....	46, rev.	1	
quarantine regulations of New Zealand against introduction.....	41	4	
red. (See <i>Aonidia aurantii</i> .)			
San José (<i>Aspidiotus perniciosus</i>), an important enemy to fruit trees, circular.....	3	1-10	1-5
quarantine regulations of foreign governments against introduction on American plants, trees, and fruits.....	41	1, 2, 4	
remedies.....	3	6-10	
resin wash as insecticide.....	42, ed. 5	1	4
terrapin. (See <i>Eulecanium nigrofasciatum</i> .)			
yellow. (See <i>Aonidia aurantii</i> .)			
"Scaly-leg" of fowls, caused by the "itch mite" <i>Cnemidocoptes mutans</i>	92	3	
<i>Scenopinus fenestralis</i> , in houses, habits.....	35	2-3	
Scent glands of cockroaches.....	71, rev.	2-3	
Scheele's green against apple-tree tent caterpillar.....	51, rev.	5	
Colorado potato beetle.....	98	8	
<i>Schistocerca americana</i> , host of <i>Meris albicans</i>	87	14	
<i>Schizoneura lanigera</i> (see also Apple root-louse). enemy of apple.....	62, rev.	3	
general account.....	81	1	
remedies.....	20, rev.	1-6	1-2
"Schwabens," colloquial name for <i>Blattella germanica</i>	20, rev.	4-6	
SCHWARZ, E. A., circular, "The Periodical Cicada in 1897".....	51, rev.	2	
"The Periodical Cicada in 1898".....	22	1-4	
Scirpus, food plant of <i>Diabrotica 12-punctata</i>	30	1-3	
Scolytus, orchard. (See <i>Scolytus rugulosus</i> .)	59	4	
<i>rugulosus</i> , circular.....	29, rev.	1-8	1-3
remedies.....	29, rev.	6-8	
Screening against house flies.....	35	5	
mosquitoes.....	71, rev.	5	
Screen, wire, against peach-tree borer.....	13	1	
round-headed apple-tree borer.....	17	3	
Screw-worms, attracted to wounds of North American fever tick on sheep.....	54	3	
<i>Scutigera forceps</i> . (See Centipede, house.)	32, rev. 3	6	
	91	3	

	Circular No.	Page.	Figure.
<i>Scymnus caudalis</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>cervicalis</i> , enemy of <i>Aphis gossypii</i>	80	6	.....
<i>Schizoneura tanigera</i>	20, rev.	6	.....
<i>terminatus</i> , enemy of <i>Aphis gossypii</i>	80	6, 7	3, h, i, j
Seed corn maggot. (See <i>Pegomya fuscipes</i> .)			
treatment before planting, to repel corn root-aphis.....	86	12	.....
<i>Semiotellus chalcidiphagus</i> . (See <i>Homoporus chalcidiphagus</i> .)			
Senecio, food plant of <i>Diabrotica 12-punctata</i>	59	3	.....
<i>Sepsis violacea</i> in houses.....	71, rev.	3, 6	8
"Serpent," colloquial name for <i>Mermis albicans</i>	62, rev.	2	.....
"Seventeen-year locust," colloquial name for periodical cicada.....	30	1	.....
Shade tree insects, control in cities and towns, circular.....	15	1-14	.....
trees, food plants of <i>Bryobia pratensis</i>	19, ed. 2	1	.....
injury by buffalo tree-hopper.....	23	1-3	.....
Shaking treatment against American and European foul brood.....	79	3	.....
Sharpshooter, glassy-winged. (See <i>Homalodisca coagulata</i> .)			
incorrect name for <i>Anthonomus grandis</i>	14	5	.....
Sheep, host of <i>Boophilus annulatus</i> , circular.....	18	5	.....
Shepherd's purse, food plant of <i>Aphis gossypii</i>	91	1-3	.....
Ship biscuits, destruction by cockroaches.....	80	5	.....
Shoat-borer, colloquial name for <i>Scolytus rugulosus</i>	51, rev.	5	.....
Shrew, short-tailed. (See <i>Blarina brevicauda</i> .)	29, rev.	1	.....
Shrike, loggerhead, enemy of grasshoppers.....	84	4	.....
<i>Sigalphus curculionis</i> , parasite of <i>Conotrachelus nenuphar</i>	73	6	.....
var. <i>rufus</i> , parasite of <i>Conotrachelus nenuphar</i>	73	6	.....
<i>tibiator</i> , parasite of <i>Anthonomus signatus</i>	21, rev.	4	.....
Silk, damage by <i>Lepisma saccharina</i>	49	2	.....
Silver fish. (See <i>Lepisma saccharina</i> .)			
<i>Simplocaria nitida</i> , association with <i>Cheilosia ataskensis</i>	61	8	.....
SIMPSON, C. B., circular, "The Yellow-winged Locust (<i>Camnula pellucida</i> Seudd.)".....	53	1-3	1
<i>Sinea diadema</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	.....
<i>Siphocoryne avenae</i> , enemy of apple.....	81	1	.....
general account.....	81	3-5	2
remedies.....	81	9-10	.....
<i>Siphonophora citrifolia</i> . (See <i>Aphis citrifolia</i> .)			
<i>cucurbitae</i> . (See <i>Nectarophora cucurbitae</i> .)			
Sirups, infestation by house ants.....	34, rev.	1	.....
<i>Sitotroga cerealella</i> , the Angoumois grain moth.....	36, rev.	4	.....
"Skein" centipede, colloquial name for <i>Scutigera forceps</i>	48	1	.....
Skins, food of <i>Trichophaga tapetzella</i>	36, rev.	5	.....
Skunk, enemy of grasshoppers.....	84	4	.....
<i>Leptinotarsa decemlineata</i>	87	12	.....
"Slug," colloquial name for larva of <i>Leptinotarsa decemlineata</i>	87	3	.....
<i>Eriocampoides limacina</i>	26	1	.....
worms, colloquial name for <i>Eriocampoides limacina</i>	26	1	.....
Slugs of strawberry, arsenicals as remedy.....	21, rev.	8	.....
Smartweed, food plant of <i>Aphis maidi-radici</i>	86	6	.....
<i>Diabrotica longicornis</i>	59	7	.....
Snake, colloquial name for <i>Mermis albicans</i>	62, rev.	2	.....
enemy of grasshoppers.....	84	4	.....
worm, colloquial name for <i>Mermis albicans</i>	62, rev.	2	.....
Snakes, enemies of <i>Leptinotarsa decemlineata</i>	87	12	.....
Snuffboxes, breeding place of <i>Musca domestica</i>	35	5	.....
Soap and carbolic acid against fruit-tree bark-beetle.....	29, rev.	7	.....
peach-tree borer.....	17	3	.....
round-headed apple-tree borer.....	32, rev. 3	6	.....
caustic potash against round-headed apple-tree borer.....	32, rev. 3	6	.....
London purple against peach-tree borer.....	17	4	.....
Paris green against peach-tree borer.....	17	4	.....
washing soda against round-headed apple-tree borer.....	32, rev. 3	6	.....
carbolic acid, Paris green, lime, and clay against peach-tree borer.....	17	4	.....
fish-oil (see also Soap, whale-oil).....	54	4	.....
against fruit-tree bark-beetle.....	29, rev.	7	.....
hop plant-louse.....	2	5-6	.....
round-headed apple-tree borer.....	32, rev. 3	6	.....
solutions against melon aphid.....	80	13-14	.....
squash bugs.....	80	16	.....
wash against fruit-tree bark-beetle.....	29, rev.	7	.....
pear slug.....	26	6	.....
treatment against San Jose scale.....	42, ed. 5	4	.....
washes against two-lined chestnut borer.....	24, rev.	7	.....
woolly aphid.....	20, rev.	4, 5-6	.....
whale-oil (see also Soap, fish-oil).....			
against apple aphid.....	81	9, 10	.....
cottony maple scale.....	64	5	.....
fruit-tree bark-beetle.....	29, rev.	5	.....
greenhouse white fly.....	57	9	.....
round-headed apple-tree borer.....	32, rev. 3	6	.....
"green bug".....	93, rev.	7, 19	.....
ineffective against strawberry weevil.....	21, rev.	7	.....
suds, hot, against fleas.....	13	4	.....

	Circular No.	Page.	Figure.
Soapy water against itch mite of fowls.....	92	4	
preventive of ill effects from exposure to "chiggers".....	77	5	
Soda and arsenite of lime against Colorado potato beetle.....	87	14	
soap against round-headed apple-tree borer.....	32, rev. 3	6	
remedy for "chiggers".....	77	6	
<i>Solanum cornutum</i> , probable food plant of <i>Leptinotarsa decemlineata</i>	87	8	
<i>rostratum</i> , food plant of <i>Leptinotarsa decemlineata</i>	87	3	
Soldier bug, armed. (See <i>Podisus spinosus</i> .)			
bordered. (See <i>Stiretrus anchorago</i> .)			
Solidago. (See Goldenrod.)			
Soot against root form of woolly aphid.....	20, rev.	4	
<i>Sorbus aucuparia</i> , food plant of <i>Aphis sorbi</i>	81	7	
<i>domestica</i> , food plant of <i>Aphis sorbi</i>	81	7	
<i>terminalis</i> , food plant of <i>Aphis sorbi</i>	81	7	
Sorghum, food plant of <i>Aphis maidis</i>	86	1, 2	
<i>Diabrotica longicornis</i>	59	7	
<i>Diatraea saccharalis</i> [larger corn stalk-borer].....	16	3	
<i>Toxoptera graminum</i>	85	4	
South Carolina, requirements relative to shipment of nursery stock.....	75, rev. 2	7	
Dakota, requirements relative to shipment of nursery stock.....	75, rev. 2	7	
"Spanier," colloquial name for <i>Blattella germanica</i>	51, rev.	2	
Sparrow, chipping, enemy of <i>Malacosoma americana</i>	98	6	
English, enemy of <i>Leptinotarsa decemlineata</i>	87	12	
<i>Pulvinaria innumerabilis</i>	64	3	
<i>Spartium scoparium</i> , food plant of <i>Hylastinus obscurus</i>	67	3	
<i>Spathius pallidus</i> , parasite of <i>Chrysobothris femorata</i>	32, rev. 3	11	
<i>simillimus</i> , parasite of <i>Agrilus bilineatus</i>	24, rev.	5	
Spelt, food plant of <i>Toxoptera graminum</i>	85	4	
<i>Sphaerophoria cylindrica</i> , enemy of <i>Macrosiphum pisi</i>	43, ed. 2	5	
<i>Sphecius speciosus</i> , range extending northward.....	97	2	
<i>Sphenophorus</i> , resistant to cyanid fumes.....	36, rev.	2	
Sphinx, catappa. (See <i>Ceratonia catappæ</i> .)			
<i>catappæ</i> , same as <i>Ceratonia catappæ</i>	96	1	
Spice bush. (See <i>Benzoin benzoin</i> .)			
Spider plant. (See Cleome.)			
Spiders, enemies of <i>Leptinotarsa decemlineata</i>	87	11	
<i>Schizoneura lanigera</i>	20, rev.	6	
Spike-grass, marsh. (See <i>Distichlis spicata</i> .)			
<i>Spilochalcis mariz</i> , parasite of <i>Thyridopteryx ephemeraformis</i>	97	7	8
<i>Spilocryptus extrematus</i> , parasite of <i>Malacosoma americana</i>	98	5	
Spinach, food plant of <i>Aphis gossypii</i>	80	5	
Spiræa, flowers, food of <i>Anthrenus scrophulariæ</i>	5, rev.	2	
Spiræas, food plants of <i>Macroductylus subspinosus</i>	11, rev.	4	
<i>Spirochæta apis</i> =giant whips of <i>Bacillus larvæ</i>	94	3-4	
<i>Sporotrichum globuliferum</i> , fungous disease of grasshoppers.....	84	5-7	7
Spraying apparatus. (See Insecticide apparatus.)			
Spruce, destruction by <i>Dendroctonus frontalis</i>	24, rev.	1	3
host tree of <i>Pissodes strobi</i>	90	3	
Sitka, host tree of <i>Parharmonia piceæ</i>	61	9	
Sitka spruce bark maggot (probably <i>Cheliosia</i> sp.).....	61	9, 10	
Squash (see also Cymling and Cucurbits).			
aphid. (See <i>Nectarophora cucurbitæ</i> .)			
bug. (See <i>Anasa tristis</i> .)			
black. (See <i>Anasa tristis</i> .)			
food plant of <i>Anasa tristis</i>	39, rev. 2	1	
<i>Diabrotica 12-punctata</i>	59	2, 3	
<i>longicornis</i>	59	7	
<i>vittata</i>	31, rev. 2	1	
<i>Melittia satyriniformis</i>	38, rev. 2	1, 2	
Hubbard, food plant of <i>Diabrotica vittata</i>	31, rev. 2	2	
marrow, food plant of <i>Diabrotica vittata</i>	31, rev. 2	2	
vine borer. (See <i>Melittia satyriniformis</i> .)			
Stable fly. (See <i>Cyrtoneura stabulans</i> , <i>Muscina stabulans</i> , and <i>Stomoxys calcitrans</i> .)			
<i>Stagmomantis carolina</i> , range extending northward.....	97	2	
Stalk-borer, larger corn. (See <i>Diatraea saccharalis</i> .)			
Starch, eaten by <i>Lepisma saccharina</i>	49	1, 2	
Steam against carpet beetle.....	5, rev.	4	
powder-post beetles.....	55	4	
<i>Stegomyia calopus</i> , distinctive characters of larva.....	72	5	
<i>Stenanthium lindenii</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
<i>Stenomesus aphidicola</i> , parasite of <i>Aphis gossypii</i>	80	6	
Sticky fly paper against house flies.....	35	5	
{ 71, rev. 5			
<i>Stictionotus isosomatus</i> , parasite of <i>Isosoma tritici</i>	66, rev.	4	
Stink bug, common name for <i>Anasa tristis</i>	39, rev. 2	1	
Stipa, green. (See <i>Stipa viridula</i> .)			
<i>viridula</i> , food plant of <i>Toxoptera graminum</i>	93, rev.	6	
<i>Stiretrus anchorago</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	
{ 35			
<i>Stomoxys calcitrans</i> in houses, mistaken for <i>Musca domestica</i>	71, rev.	1, 2	2
Stored foods, drugs, and vegetables, eaten by <i>Lepisma saccharina</i>	49	1, 2	

	Circular No.	Page.	Figure.
Straw barriers against fruit-tree bark-beetle.....	29, rev.	7	
peach-tree borer.....	17	3	
{	54	3	
Strawberry crown-girdler. (See <i>Otiorynchus ovatus</i> .)			
food plants of <i>Aleyrodes packardii</i>	57	4	
<i>Anthonomus signatus</i>	21, rev.	1-5	
<i>Aphis gossypii</i>	80	5	
slugs, arsenicals as remedy.....	21, rev.	8	
varieties preferred as food plants by <i>Anthonomus signatus</i>	21, rev.	1, 2, 6	
weevil. (See <i>Anthonomus signatus</i> .)			
white fly. (See <i>Aleyrodes packardii</i> .)			
wild, food plant of <i>Anthonomus signatus</i>	21, rev.	2	
"Striped bug," colloquial name for <i>Diabrotica vittata</i>	31, rev. 2	1	
<i>Stylopyga orientalis</i> . (See <i>Blatta orientalis</i> .)			
Submersion in water against pin borers in cypress and gums.....	82	4	
Sugar and borax against ants.....	34, rev.	4	
Sugar cane borer. (See <i>Diatraea saccharalis</i> .)			
food plant of <i>Diatraea saccharalis</i>	16	1, 3	
Sugars, infestation by house ants.....	34, rev.	1	
Sulphate of copper and lime ineffective against strawberry weevil.....	21, rev.	7	
potash against seed-corn maggot.....	63, ed. 2	3	
Sulphur (see also Brimstone).			
against cockroaches.....	51, rev.	12	
cotton red spider.....	65	4	
"green bug".....	93, rev.	19	
and flour against cotton red spider.....	65	4	
lime against chicken mite.....	92	3	
common hen louse.....	92	6	
oils against ox warble.....	25	8	
plaster of Paris against cotton red spider.....	65	4	
road dust against cotton red spider.....	65	4	
vaseline, preventive of ill effects from exposure to "chiggers".....	77	5	
dioxid against carpet beetle.....	5, rev.	4	
fumigation against bedbug.....	47, rev.	7	
ointment against itch mite of fowls.....	92	4	
preventive of ill effects from exposure to "chiggers".....	77	5	
Sumac, food plant of <i>Macrodactylus subspinosus</i>	11, rev.	4	
Sunflower, food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>longicornis</i>	59	7	
<i>vittata</i>	31, rev. 2	2	
wild, food plant of <i>Diabrotica 12-punctata</i>	59	3	
Sunlight against chicken mite.....	92	3	
clothes moths.....	36, rev.	6	
Swallows, cliff or eaves, host of <i>Cimex</i> sp.....	47, rev.	3	
Sweets, infestation by house ants.....	34, rev.	1	
Switzerland, laws relative to importation of American plants, trees, and fruits.....	41	4	
Sycamore, food plant of <i>Chrysobothris femorata</i>	32, rev. 3	9	
<i>Eulecanium nigrofasciatum</i>	88	2	
<i>Pulvinaria innumerabilis</i>	64	2	
<i>Syrphoctonus maculifrons</i> , parasite of <i>Cheilosia alaskensis</i>	61	7-8	
<i>hoodianus</i>	61	9	
<i>Syrphus americanus</i> , enemy of <i>Aphis gossypii</i>	80	6	
<i>Macrosiphum pisi</i>	43, ed. 2	5	
fly larvæ, enemies of aphides.....	81	8	
<i>ribesii</i>	80	8	4
T.			
Tachina flies, enemies of canker-worms.....	9	2	
fly, red-tailed. (See <i>Nemorza leucania</i> .)			
<i>Tæniorynchus perturbans</i> , distinctive characters of larva.....	72	3	
Tanager, scarlet, enemy of <i>Leptinotarsa decemlineata</i>	87	12	
Tapestry moth. (See <i>Trichophaga tapetzella</i> .)			
Tar against white ants.....	50, rev.	7	
paper against carpet beetle.....	5, rev.	3	
clothes moths.....	36, rev.	6	
fruit-tree bark-beetle.....	29, rev.	7	
two-lined chestnut borer.....	24, rev.	6	
cards against cabbage maggot.....	63, ed. 2	5-6	3-5
Tares, food plants of <i>Macrosiphum pisi</i>	43, ed. 2	4	
Tea, New Jersey. (See <i>Ceanothus</i> .)			
<i>Telenomus clisiocampe</i> , parasite of <i>Malacosoma americana</i>	98	5	
<i>Telephorus bilineatus</i> , enemy of <i>Hylastinus obscurus</i>	67	4	
Temperature (see also Weather).			
extremes as limiting distribution of <i>Leptinotarsa decemlineata</i>	87	6-7	
in relation to <i>Toxoptera graminum</i>	93, rev.	3-5	
Tennessee, requirements relative to shipment of nursery stock.....	75, rev. 2	7	
Tent caterpillar, apple-tree. (See <i>Malacosoma americana</i> .)			
caterpillars. (See <i>Malacosoma</i> spp.)			
<i>Tenthredo cerasi</i> , distinct from <i>Eriocampoides limacina</i>	26	2	

	Circular No.	Page.	Figure.
<i>Tenthredo limacina</i> = <i>Eriocampoides limacina</i>	26	2	.....
<i>Termes flavipes</i> . (See Ant, white.)			
<i>lucifugus</i> in America.....	50, rev.	4	.....
<i>Tetracha virginica</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	.....
<i>Tetramorium cæspitum</i> , feeding on honeydew from <i>Aphis gossypii</i>	80	1	.....
general account.....	34, rev.	3-4	3
remedies.....	34, rev.	4	.....
<i>Tetranychus gloveri</i> , circular.....	65	1-5	1-2
remedies.....	65	4-5	.....
<i>Tetrastichus microgastri</i> , secondary parasite of <i>Pontia rapæ</i>	60	5	.....
<i>scolyti</i> , secondary parasite of <i>Scolytus rugulosus</i>	29, rev.	6	.....
spp., parasites of <i>Dasyneura leguminicola</i>	69	6	.....
<i>zanthomelæne</i> , parasite of <i>Galerucella luteola</i>	8, rev.	4	.....
Texas, requirements relative to shipment of nursery stock.....	75, rev. 2	7-8	.....
<i>Thanasimus</i> sp., enemy of <i>Scolytus rugulosus</i>	29, rev.	6	.....
<i>Theobaldia incidens</i> , distinctive characters of larva.....	72	4	.....
<i>Thermobia domestica</i> . (See <i>Lepisma domestica</i> .)			
<i>furnorum</i> . (See <i>Lepisma domestica</i> .)			
<i>Theronia melanocephala</i> , parasite of <i>Malacosoma americana</i>	98	6	.....
<i>Thersilochus conotracheli</i> , parasite of <i>Conotrachelus nenuphar</i>	73	6	.....
Thistle, flowers frequented by butterflies of <i>Pontia rapæ</i>	60	4	.....
food plant of <i>Diabrotica longicornis</i>	59	7	.....
<i>Leptinotarsa decemlineata</i>	87	8	.....
Thorn, food plant of <i>Malacosoma americana</i>	98	2	.....
<i>Saperda cretata</i>	32, rev. 3	8	.....
white. (See <i>Cratægus oxyacantha</i> .)			
Thorns, food plants of <i>Saperda candida</i>	32, rev. 3	3	.....
"Thousand legs," colloquial name for <i>Scutigera forceps</i>	48	1	.....
Thrips, hydrocyanic-acid gas as remedy.....	46, rev.	1	.....
in greenhouses, remedies.....	80	12	.....
onion. (See <i>Thrips tabaci</i> .)			
<i>tabaci</i> , the onion thrips, not found on tobacco in United States.....	68	1	.....
tobacco. (See <i>Euthrips nicotianæ</i> .)			
wheat. (See <i>Euthrips tritici</i> .)			
Thrush, hermit, enemy of <i>Leptinotarsa decemlineata</i>	87	12	.....
olive-backed, enemy of <i>Leptinotarsa decemlineata</i>	87	12	.....
wood, enemy of <i>Leptinotarsa decemlineata</i>	87	12	.....
<i>Thyridopteryx ephemeraformis</i> . (See Bagworm.)			
<i>Tibicen septendecim</i> . (See Cicada, periodical.)			
Tick, chicken. (See <i>Argas miniatus</i> .)			
erroneous name for harvest mite or "chigger".....	77	1	.....
North American fever. (See <i>Boophilus annulatus</i> .)			
Timber beetles, injury to girdled cypress.....	82	1	.....
Timothy, food plant of <i>Leucania unipuncta</i>	4	1	.....
<i>Mayetiola destructor</i> or related species.....	70	7	.....
<i>Tinea pellionella</i> , general account.....	36, rev.	2-4	1
remedies.....	36, rev.	5-8	.....
<i>Tineola biselliella</i> , general account.....	36, rev.	4-5	2
remedies.....	36, rev.	5-8	.....
TITUS, E. S. G., circular "The Cotton Red Spider (<i>Tetranychus gloveri</i> Bks.)"	65	1-5	1-2
Toad, enemy of grasshoppers.....	84	4	.....
<i>Leptinotarsa decemlineata</i>	87	12	.....
<i>Malacosoma americana</i>	98	6	.....
Tobacco against aphides, etc.....	37, rev. 2	1	.....
apple aphides.....	81	10	.....
clothes moths.....	36, rev.	6	.....
common hen louse.....	92	6	.....
"green bug".....	93, rev.	6	.....
greenhouse white fly.....	57	8-9	.....
melon aphids.....	80	10-13	.....
striped cucumber beetle.....	31, rev. 2	7	.....
woolly aphids.....	20, rev.	4-5	.....
and soapsuds against "green bug".....	93, rev.	6	.....
budworms. (See <i>Chloridea virescens</i> and <i>Heliothis obsoleta</i> .)			
food plant of <i>Diabrotica 12-punctata</i>	59	3	.....
<i>Euthrips nicotianæ</i>	68	1-2	.....
<i>Leptinotarsa decemlineata</i>	87	8	.....
ineffective against rose-chaffer.....	11, rev.	3	.....
strawberry weevil.....	21, rev.	7	.....
thrips. (See <i>Euthrips nicotianæ</i> .)			
"white veins" caused by <i>Euthrips nicotianæ</i>	68	1-2	.....
Tomato, food plant of <i>Aleyrodes vaporariorum</i>	37, rev. 2	4	.....
<i>Aphis gossypii</i>	57	1-2	.....
<i>Diabrotica 12-punctata</i>	80	5	.....
<i>Leptinotarsa decemlineata</i>	59	3	.....
Tomatoes, fumigation with hydrocyanic-acid gas.....	87	8	.....
<i>Toxoptera graminum</i> , circulars.....	37, rev. 2	4	.....
experiments with remedies.....	85	1-7	1-3
remedies.....	93, rev.	1-22	1-10
remedies.....	93, rev.	6-7	.....
remedies.....	85	6-7	.....
remedies.....	93, rev.	19-21	.....

	Circular No.	Page.	Figure.
Trapping against boll weevil.....	56	3-4	
cockroaches.....	51, rev.	13-14	
squash bug.....	39, rev.	4	
Trap crops against buffalo tree-hopper.....	23	4	
harlequin cabbage bug.....	10	2	
Hessian fly.....	12, rev.	4	
imported cabbage worm.....	60	8	
melon aphid.....	80	15	
rose-chaffer.....	11, rev.	4	
strawberry weevil.....	21, rev.	5	
useless against chestnut weevils.....	99	9	
leaves against imported cabbage worm.....	60	8	
plants against boll weevil.....	14	6, 8	
striped cucumber beetle.....	18	6-7	
trees against two-lined chestnut borer.....	95, rev.	5-6	
felled, against ambrosia beetles in cypress.....	31, rev. 2	6	
flat-headed apple-tree borer.....	24, rev.	3-4	
Traps against fruit-tree bark-beetle.....	32, rev. 3	11	
squash-vine borer.....	29, rev.	7	
Tree-hopper, buffalo. (See <i>Ceresa bubalus</i> .)	38, rev. 2	5	
Trees, living, eaten by <i>Termes flavipes</i>	50, rev.	5-6	
<i>Trichasis rufipes</i> , probable parasite of <i>Balaninus proboscideus</i> and <i>B. rectus</i>	99	6	
<i>Trichopaga tapetzella</i> , general account.....	36, rev.	5	3
remedies.....	36, rev.	5-8	
<i>Trichopoda pennipes</i> , parasite of <i>Anasa tristis</i>	39, rev. 2	4	
<i>Trifolium hybridum</i> . (See Clover, alsiko.)			
medium. (See Clover, mammoth.)			
pratense. (See Clover, red.)			
<i>Trioxys testaceipes</i> , parasite of <i>Aphis gossypii</i>	80	6	
<i>Tripsacum dactyloides</i> , food plant of <i>Diatraea saccharalis</i> (corn stalk-borer).....	16	3	
<i>Triissolcus murgantiae</i> , parasite of <i>Murgantia histrionica</i>	10	2	
Trombidium, <i>Leptus</i> a synonym.....	77	2	
locustarum, enemy of grasshoppers.....	84	4	
sp.....	77	1, 3	1, 3
Tubers, starchy, food of cockroaches.....	51, rev.	3	
Tulip, possible food plant of <i>Chrysobothris femorata</i>	32, rev. 3	10	
Turkey, enemy of boll weevil.....	27	5	
Turkey, laws relative to importation of American plants, trees, and fruits.....	41	4	
Turnip, food plant of <i>Diabrotica 12-punctata</i>	59	3	
<i>Pegomya fusciceps</i>	63, ed. 2	2	
<i>Pontia rapæ</i>	60	4	
Turpentine against bedbug.....	47, rev.	7	
ox warble.....	25	9	
striped cucumber beetle.....	31, rev. 2	7	
and gypsum against squash bug.....	39, rev. 2	5	
land plaster against squash bug.....	59, rev. 2	5	
Tussock moth, white-marked (<i>Homocampa leucostigma</i>), control.....	15	3, 4	
host of <i>Pimpla inquisitor</i>	97	6	
shade-tree pest.....	97	1	
Tweezers for removal of ox warble.....	25	9	
Typhoid fever, carriage by house fly.....	35	8	
fly, proposed as a better name for <i>Musca domestica</i>	71, rev.	8	
	71, rev.	[11]	
U.			
<i>Ulmus americana</i> notably exempt from attack of <i>Galerucella luteola</i>	8, rev.	3	
<i>Uranotaenia</i> , distinctive characters of larvæ.....	72	3	
sapphirina.....	72	3	
<i>Uropoda americana</i> , enemy of <i>Leptinotarsa decemlineata</i>	87	11	
<i>Urosalpinx armatus</i> , parasite of <i>Balaninus proboscideus</i> and <i>B. rectus</i>	99	6	
Utah, requirements relative to shipment of nursery stock.....	75, rev.	8	
V.			
<i>Vaccinium</i> sp., food plant of <i>Eulecanium nigrofasciatum</i>	88	2	
Vaseline and sulphur, preventive of ill effects from exposure to "chiggers".....	77	5	
preventive of ill effects from exposure to "chiggers".....	77	5	
Vermont, requirements relative to shipment of nursery stock.....	75, rev. 2	8	
Vetches, food plants of <i>Macrosiphum pisi</i>	43, ed. 2	4	
Violet, food plant of <i>Aphis gossypii</i>	80	5	
Violets, fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	
Vireo, red-eyed, enemy of <i>Malacosoma americana</i>	98	6	
Virginia creeper, food plant of <i>Pulvinaria innumerabilis</i>	64	2	
requirements relative to shipment of nursery stock.....	75, rev. 2	8	

	Circular No.	Page.	Figure.
W.			
"Wall louse," colloquial name for <i>Cimex lectularius</i>	47, rev.	2	.....
paper, damage by cockroaches.....	51, rev.	6	.....
"Warbled stock," meaning of term.....	25	1	.....
Warbler, yellow, enemy of <i>Malacosoma americana</i>	98	6	.....
Washington [State], requirements relative to shipment of nursery stock.....	75, rev. 2	8	.....
Wasp, larger digger. (See <i>Sphecius speciosus</i> .)			
mimicked by <i>Sannina exitiosa</i>	17	1	.....
	54	1	.....
Wasps, enemies of canker-worms.....	9	2	.....
feeding on honeydew from aphides.....	80	1	.....
Water against cotton red spider.....	65	5	.....
melon aphid.....	80	14	.....
boiling, against elm leaf-beetle.....	8, rev.	6	.....
bug, colloquial name for <i>Blattella germanica</i>	51, rev.	1	.....
hot, against ants.....	34, rev.	4	.....
bedbug.....	47, rev.	7	.....
box-elder plant-bug.....	28	3	.....
carpet beetle.....	5, rev.	3	.....
chestnut weevils.....	99	10	.....
imported cabbage worm.....	60	7	.....
peach-tree borer.....	54	5	.....
woolly aphid.....	20, rev.	4-5, 6	.....
ineffective against rose-chaffer.....	11, rev.	3	.....
preventive of ill effects from exposure to "chiggers".....	77	5	.....
oak, probable food plant of <i>Tetranychus gloveri</i>	65	3	.....
submersion against pin borers in cypress.....	82	4	.....
test against chestnut weevils unreliable.....	99	9	.....
Watermelon (see also Melons and cucurbits.)			
food plant of <i>Diabrotica 12-punctata</i>	59	3	.....
<i>vittata</i>	31, rev. 2	2	.....
Weather (see also Temperature.)			
in relation to <i>Mayetiola destructor</i>	70	10	.....
<i>Toxoptera graminum</i>	85	5-6	.....
WEBSTER, F. M., circular, "Some Insects Affecting the Production of Red Clover Seed".....	69	1-9	1-8
"The Clover Root-borer (<i>Hylastinus ob- scurus</i> Marsham)".....	67	1-5	1-4
"The Corn Leaf-aphid and Corn Root- aphis".....	86	1-13	1-4
"The Grasshopper Problem and Alfalfa Culture".....	84	1-10	1-8
"The Hessian Fly (<i>Mayetiola</i> [<i>Cecido- myia</i>] <i>destructor</i> Say)".....	70	1-16	1-16
"The Joint-worm (<i>Isosoma tritici</i> Fitch)".....	66, rev.	1-7	1-6
"The Slender Seed-corn Ground-beetle (<i>Clivina impressifrons</i> Lec.)".....	78	1-6	1-2
"The Spring Grain-aphid (<i>Toxoptera graminum</i> Rond.)".....	85	1-7	1-3
"The Spring Grain-aphid or so-called 'Green Bug' (<i>Toxoptera graminum</i> Rond.)".....	93, rev.	1-22	1-10
<i>Websterellus tritici</i> , parasite of <i>Isosoma tritici</i>	66, rev.	4	.....
Webworm, fall (<i>Hyphantria cunea</i>), control.....	15	3, 4	.....
on catalpa.....	96	1	.....
shade-tree pest.....	97	1	.....
Weeds, eradication against Colorado potato beetle.....	87	15	.....
Weevil, acorn, mistaken for boll weevil.....	27	5	.....
clover-leaf. (See <i>Phytonomus punctatus</i> .)			
hazelnut. (See <i>Balaninus obtusus</i> .)			
larger chestnut. (See <i>Balaninus proboscideus</i> .)			
lesser chestnut. (See <i>Balaninus rectus</i> .)			
Mexican cotton-boll (<i>Anthonomus grandis</i>), general circulars.....	6	1-5	1-3
	14	1-8	1-5
	18	1-8	1-5
in 1897, circular.....	27	1-7	.....
most important remedy, circulars.....	56	1-7	.....
	95, rev.	1-8	.....
remedies, circular.....	33	1-6	.....
pecan. (See <i>Balaninus caryæ</i> .)			
white pine. (See <i>Pissodes strobi</i> .)			
West Indian peach scale. (See <i>Diaspis pentagona</i>).....	52, ed. 2	2	.....
Virginia, requirements relative to shipment of nursery stock.....	75, rev. 2	8	.....
Wharves, destruction by white ants.....	50, rev.	1	.....
Wheat, durum or macaroni, not attractive to Hessian fly.....	70	10	.....
food plant of (<i>Cecidomyia</i>) <i>Mayetiola destructor</i>	12, rev.	1, 2-3	.....
chinch bug.....	70	1-10	.....
<i>Diabrotica 12-punctata</i>	70	1	.....
<i>Isosoma tritici</i>	59	3, 4	.....
<i>Leucania unipuncta</i>	66, rev.	1-4	.....
	4	1	.....

	Circular No..	Page.	Figure.
Wheat, food plant of <i>Macrodictylus subspinosus</i>	11, rev.	2	.....
<i>Siphocoryne avenæ</i>	81	4	.....
<i>Toxoptera graminum</i>	85	4	.....
{ grass, slender. (See <i>Agropyron tenerum</i> .)	93, rev.	2, 5	.....
midge. (See <i>Contarinia tritici</i> .)			
thrips. (See <i>Euthrips tritici</i> .)			
varieties resistant to Hessian fly.....	12, rev.	4	.....
volunteer, destruction in control of Hessian fly.....	70	15	.....
Wheel bug. (See <i>Aritus cristatus</i> .)			
White fly, greenhouse. (See <i>Aleyrodes vaporariorum</i> .)			
hydrocyanic-acid gas as remedy.....	46, rev.	1	.....
orange. (See <i>Aleyrodes citri</i> .)			
strawberry. (See <i>Aleyrodes packardii</i> .)			
WHITE, G. F., circular, "The Cause of American Foul Brood".....	94	1-4	.....
"White veins" in wrapper tobacco the work of <i>Euthrips nicotianæ</i>	68	1-2	.....
Whitewash and carbolic acid against chicken mite.....	92	3	.....
Willow, food plant of <i>Chrysobothris femorata</i>	32, rev. 3	9	.....
<i>Malacosoma americana</i>	98	2	.....
<i>Pulsinaria innumerabilis</i>	64	2	.....
injury by <i>Ceresa bubalus</i>	23	2	.....
Wilt disease of cucurbits, cotton, and cowpeas, bacterial. (See			
<i>Bacillus tracheiphilus</i> and <i>Neocosmospora vasinfecta</i> .)			
Window fly. (See <i>Scenopinus fenestralis</i> .)			
Wire gauze (see also Screen, wire).			
barriers against round-headed apple-tree borer.....	32, rev. 3	6	.....
Wisconsin, requirements relative to shipment of nursery stock.....	75, rev. 2	8-9	.....
Witch-hazel, food plant of <i>Malacosoma americana</i>	98	2	.....
Woodpecker, red-headed, enemy of grasshoppers.....	84	4	.....
Woodpeckers, enemies of <i>Chrysobothris femorata</i>	32, rev. 3	11	.....
<i>Pissodes strobi</i>	90	7	.....
<i>Saperda candida</i>	32, rev. 3	5	.....
Wood, seasoned, injury by powder-post beetles, circular.....	55	1-5	1
WOODS, ALBERT F., circular, "The Use of Hydrocyanic-acid Gas			
for Fumigating Greenhouses and Cold			
Frames".....	37, rev. 2	1-11	1-3
and DORSETT, P. H., circular, "The Use of			
Hydrocyanic-acid Gas for Fumigating			
Greenhouses and Cold Frames".....	37, rev.	1-10	1-3
Woolens, food of <i>Anthrenus scrophulariæ</i>	5, rev.	1	.....
<i>Tinea pellionella</i>	36, rev.	3, 4	.....
<i>Tineola biselliella</i>	36, rev.	4	.....
<i>Trichophaga tapetzella</i>	36, rev.	5	.....
gnawed by cockroaches.....	51, rev.	4	.....
Woolly aphid. (See <i>Schizoneura lanigera</i> .)			
apple louse. (See <i>Schizoneura lanigera</i> .)			
"Worms," colloquial name for chestnut-weevil larvæ.....	99	2	.....
<i>Wyomyia smithii</i> , distinctive characters of larva.....	72	1	.....
Wyoming, requirements relative to shipment of nursery stock.....	75, rev. 2	9	.....
X.			
<i>Xanthium</i> spp. (See Cocklebur.)			
<i>Xanthosoma lindeni</i> , fumigation with hydrocyanic-acid gas.....	37, rev. 2	3	.....





